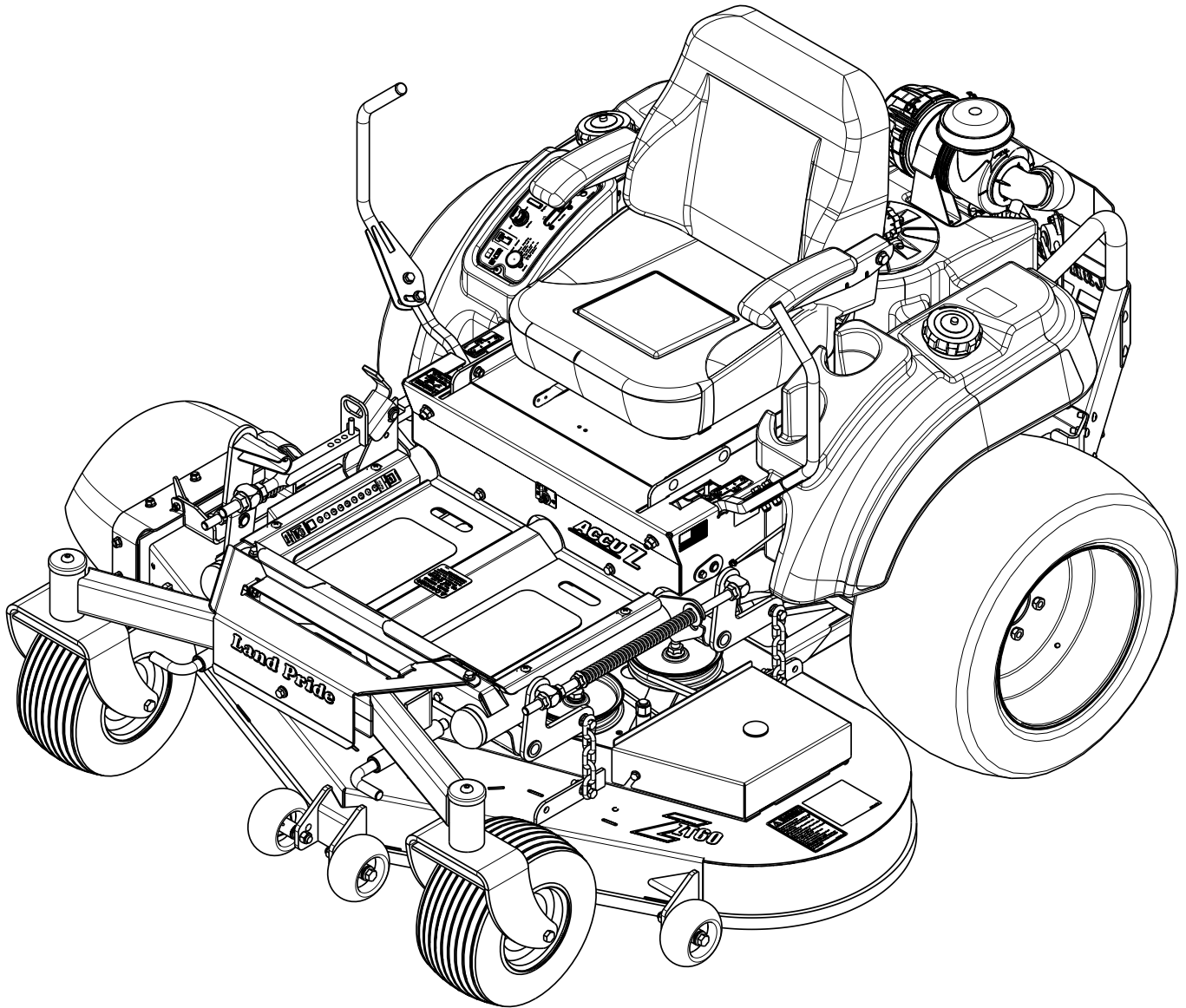


Riding Mowers Accu-Z[®]

ZT60 & ZT72 Zero Turning Radius Mowers



26689

357-103M Operator's Manual



Read the Operator's manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!



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Cover photo may show optional equipment not supplied with standard unit.

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Important Safety Information

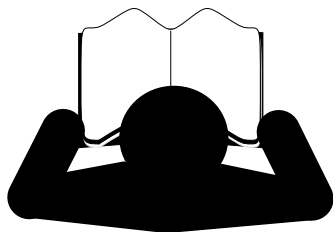
These are common practices that may or may not be applicable to the products described in this manual.

Safety at All Times

Thoroughly read and understand the instructions given in this manual before operation. Refer to the "Safety Label" section, read all instructions noted on them.

Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.

- ▲ Operator should be familiar with all functions of the unit.
- ▲ Operate implement from the driver's seat only.
- ▲ Do not leave equipment unattended with engine running.
- ▲ Dismounting from a moving mower could cause serious injury or death.
- ▲ Do not stand between the mower and implement during hitching.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ Wear snug fitting clothing to avoid entanglement with moving parts.
- ▲ Watch out for wires, trees, etc., when raising implement. Make sure all persons are clear of working area.
- ▲ Turning mower too tight may cause implement to ride up on wheels. This could result in injury or equipment damage.



Look For The Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Be Aware of Signal Words

A Signal word designates a degree or level of hazard seriousness. The signal words are:

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

WARNING

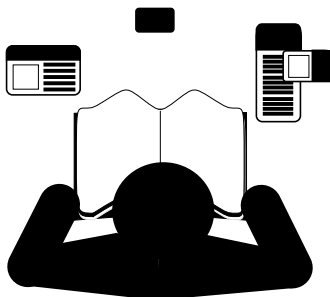
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

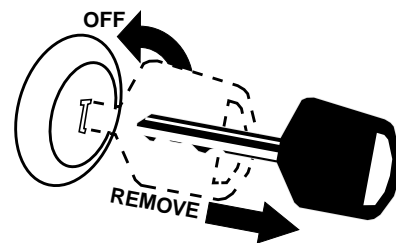
For Your Protection

- ▲ Thoroughly read and understand the "Safety Label" section, read all instructions noted on them.



Shutdown and Storage

- ▲ Lower machine to ground, put mower in park, turn off engine, and remove the key.
- ▲ Detach and store implements in a area where children normally do not play. Secure implement by using blocks and supports.

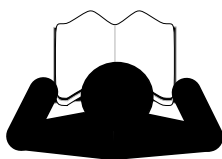


Important Safety Information

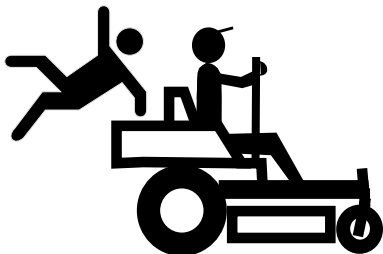
These are common practices that may or may not be applicable to the products described in this manual.

Practice Safe Maintenance

- ▲ Understand procedure before doing work. Use proper tools and equipment, refer to Operator's Manual for additional information.
- ▲ Work in a clean dry area.
- ▲ Put mower in park, turn off engine, and remove key before performing maintenance.
- ▲ Allow mower to cool completely before performing maintenance.
- ▲ Do not grease or oil mower while in operation.
- ▲ Inspect all parts. Make sure parts are in good condition and installed properly.
- ▲ Remove buildup of grease, oil or debris.
- ▲ Remove all tools and unused parts from mower before operation.

**Keep Riders Off Machinery**

- ▲ Riders obstruct the operator's view, they could be struck by foreign objects or thrown from the machine.
- ▲ Never allow children under 16 years of age to operate equipment.

**Avoid High Pressure Fluids Hazard**

- ▲ Escaping fluid under pressure can penetrate the skin causing serious injury.
- ▲ Avoid the hazard by relieving pressure before disconnecting hydraulic lines or performing work on the system.
- ▲ Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be treated within a few hours or gangrene may result.

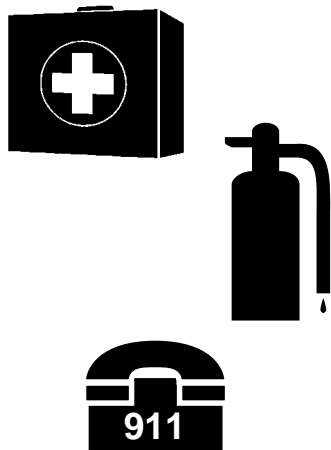


Important Safety Information

These are common practices that may or may not be applicable to the products described in this manual.

Prepare for Emergencies

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.

**Wear Protective Equipment**

- ▲ Protective clothing and equipment should be worn.
- ▲ Wear clothing and equipment appropriate for the job. Avoid loose fitting clothing.
- ▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Operating equipment safely requires the full attention of the operator. Avoid wearing radio headphones while operating machinery.



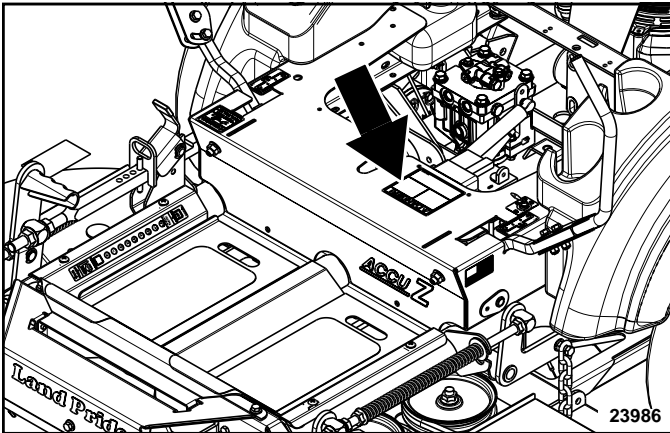
Important Safety Information

Safety Labels

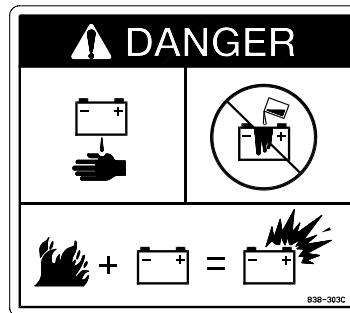
Your mower comes equipped with all safety labels in place. They were designed to help you safely operate your implement. Read and follow their directions.

1. Keep all safety labels clean and legible.
2. Replace all damaged or missing labels. To order new labels go to your nearest Land Pride dealer.
3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.

4. Refer to this section for proper label placement. To install new labels:
 - a. Clean the area the label is to be placed.
 - b. Spray soapy water on the surface where the label is to be placed.
 - c. Peel backing from label. Press firmly onto the surface.
 - d. Squeeze out air bubbles with the edge of a credit card.

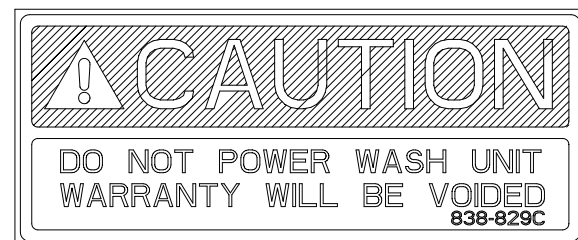
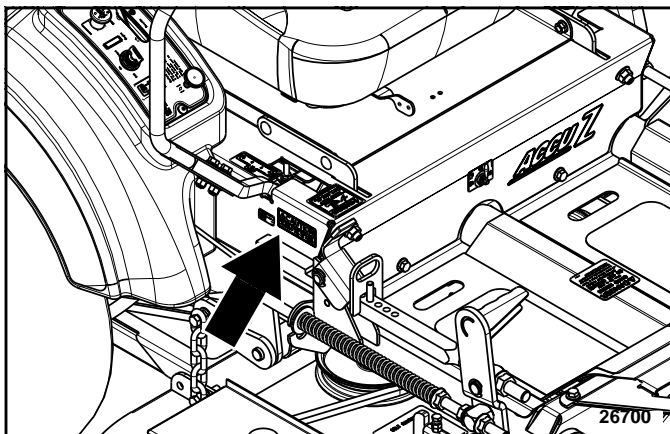


Seat platform and seat removed to show decal



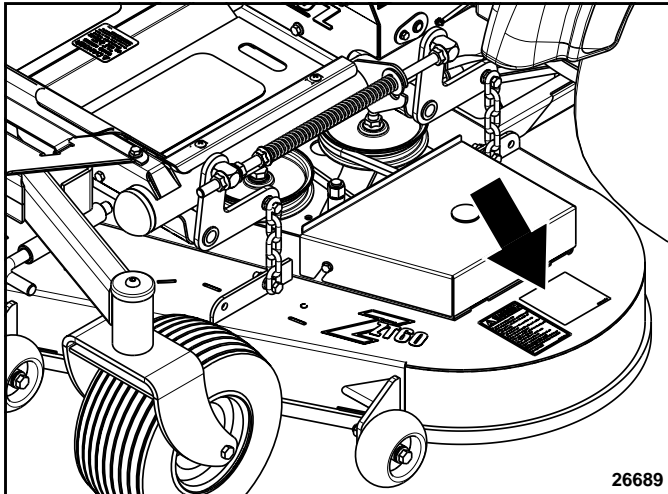
838-303C

Danger: Battery
(In Engine Compartment Beneath The Seat Mount)

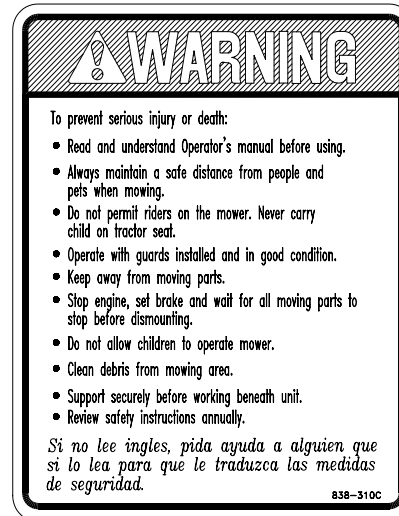
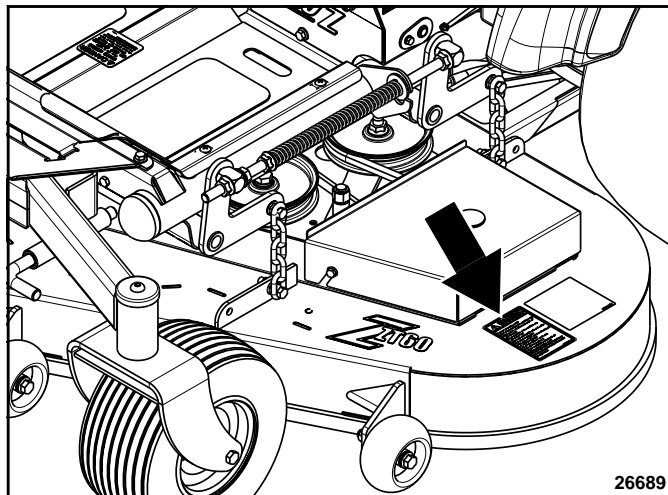


838-829C

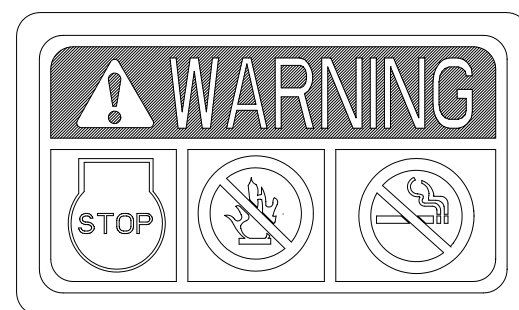
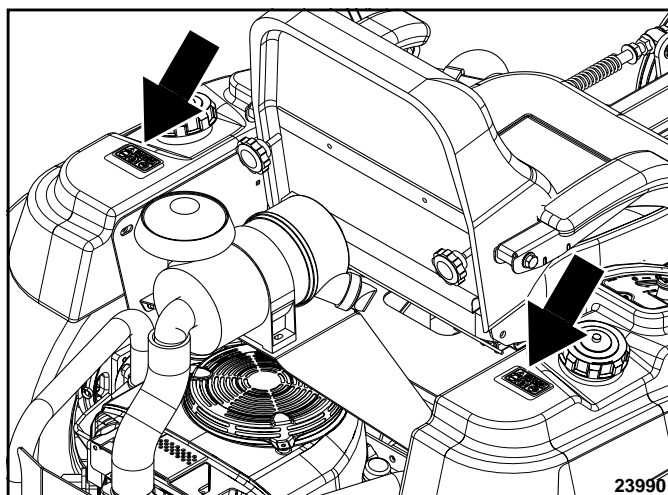
Caution: Do Not Power Wash

Important Safety Information**838-307C**

Warning: Moving Parts

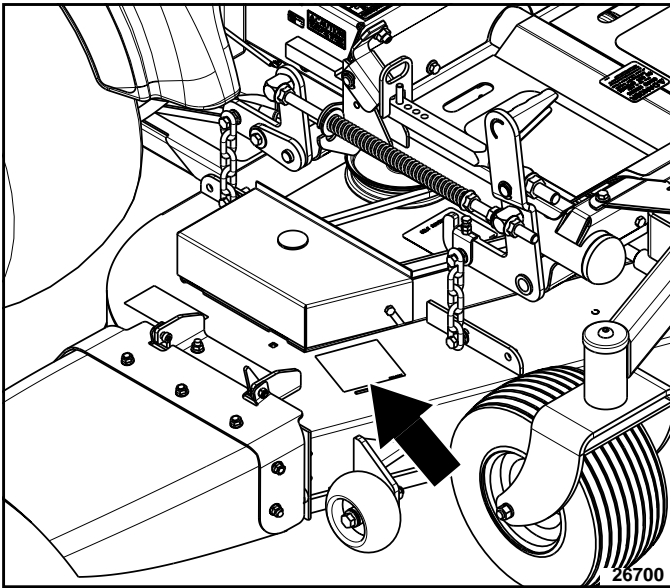
**838-310C**

Warning: General

**838-833C**

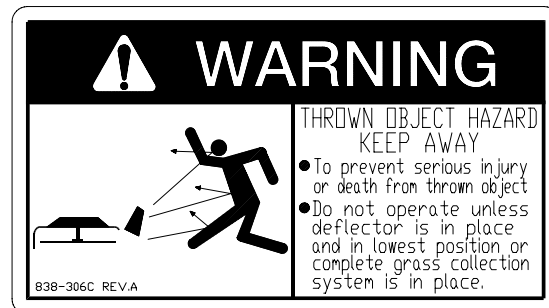
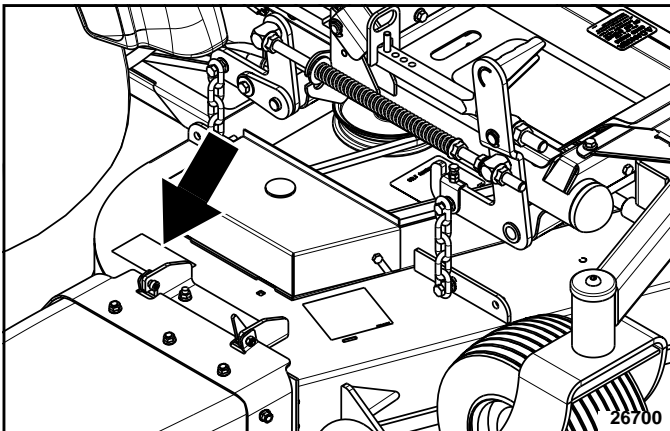
Warning: Fuel (Imbedded in Fuel Tank)

Important Safety Information



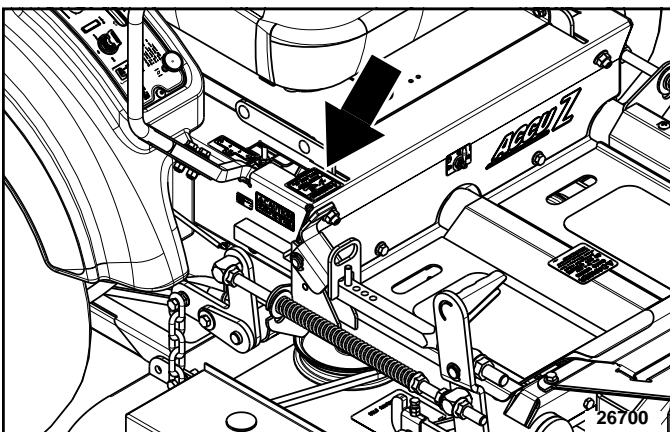
838-308C

Warning: Rotating Blade Hazard



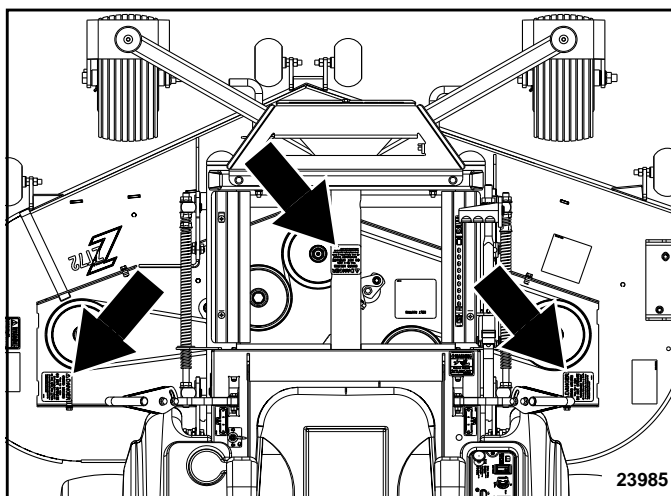
838-306C

Warning: Do not operator without deflector



838-815C

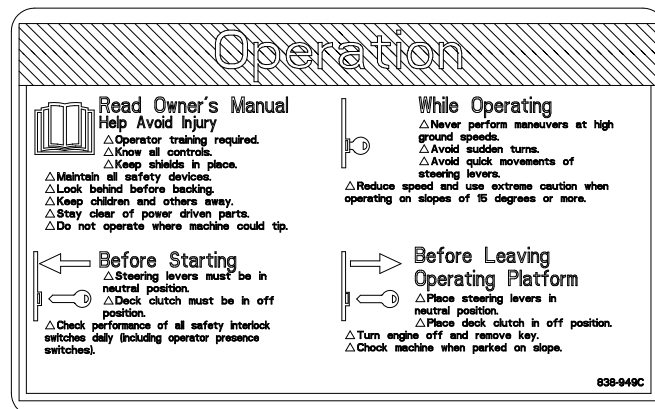
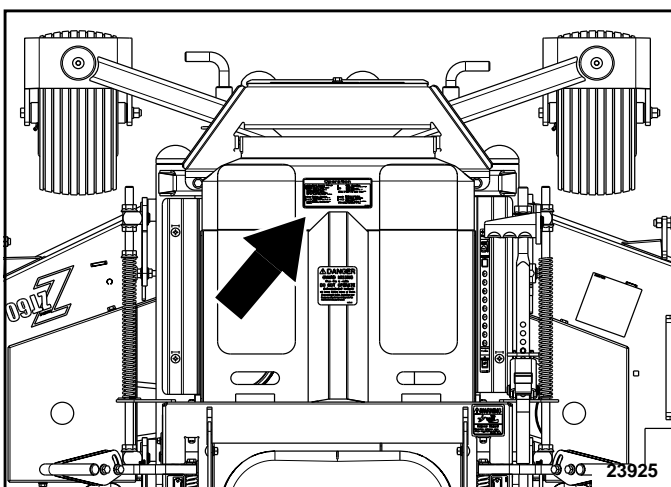
Warning: Rollover Hazard

Important Safety Information

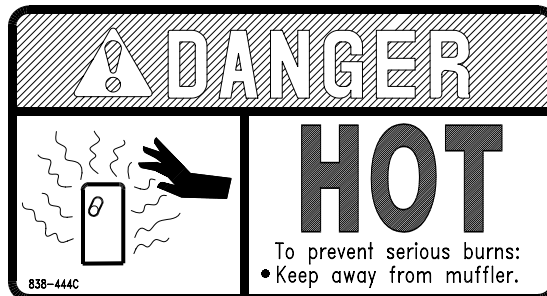
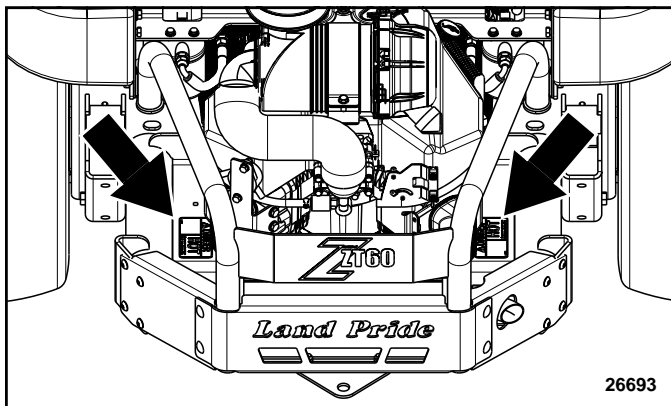
Floor platform has been removed to show decal

**818-543C**

Danger: Guard Missing
3- Places

**838-949C**

Warning: Safe operating Instructions

**838-444C**

Danger: Muffler Hot
(Both Sides of Engine)

Introduction

Land Pride welcomes you to the growing family of new product owners.

This mower has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance and safe operating practices will help you get years of satisfactory use from the machine.

Application

The Accu-Z ZT60 and ZT72 Series Mowers from Land Pride are commercial duty mowers. They are very maneuverable, extremely comfortable, highly productive, and come in cutting configurations designed to meet the needs of even the most discriminating owners and custom operators. This makes the Accu-Z Series one of the premier choices of grass maintenance machines for ranchers, farmers, large estate owners, cemeteries, municipalities, campuses, and landscape maintenance contractors.

The Accu-Z Series Mowers come equipped with a choice of either 60" or 72" cutting decks with high blade tip speeds that range from 18,768 feet per minute on the 60" deck to 18,574 feet per minute on the 72" deck. The cutting decks adjust from 1/2" to 4 1/2" cutting height in 1/4" increments. The 60" deck meet the needs of customers who need to mow in tighter areas around obstacles or want to maintain a lower cutting height over undulating terrain. The more productive 72" cutting deck will meet the needs of customers with more level and open areas to cut and just want to get the mowing job done faster. The 60" cutting deck models offer a choice of 24 hp Honda, 25 and 31 hp Kawasaki, and 27 and 30 hp Kohler air-cooled engines while the 72" deck models offer a choice of 25 and 31 hp Kawasaki and 27 and 30 hp Kohler air cooled engines for proven performance, power, and reliability.

Customers living in areas with hills or warmer and wetter climates will typically want to employ the floating axle capability for enhanced traction capability and a smoother ride. Twin-lever hydrostatic steering will enable 60" models to turn with-in their overall length. Couple this outstanding maneuverability with a 10 mph mowing speed and low center of gravity and you've got mowing capability that's fast, safe, comfortable, and easy to transport. Top all of this off with Land Pride's new electrically released automotive drum style braking system. The Accu-Z ZT60 and ZT72 Series Mowers from Land Pride will meet the commercial duty needs described above.

See "**Section 6: Specifications & Capacities**" on page 52 and "**Section 7: Features and Benefits**" on page 54 for additional information and performance enhancing options.

Using This Manual

- This Operator's Manual is designed to help familiarize you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.

- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator's or Parts Manual contact your authorized dealer. Manuals can also be downloaded, free-of-charge from our website at www.landpride.com or printed from the Land Pride Service & Support Center by your dealer.

Terminology

"Right" or "Left" as used in this manual is determined by facing forward while sitting in the operator seat unless otherwise stated.

Definitions

NOTE: A special point of information that the operator must be aware of before continuing.

IMPORTANT: A special point of information related to its preceding topic. Land Pride's intention is that this information should be read and noted before continuing.

Owner Assistance

The Warranty Registration card should be filled out by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

If customer service or repair parts are required contact a Land Pride dealer. A dealer has trained personnel, repair parts and equipment needed to service the mower.

The parts on your mower have been specially designed and should only be replaced with genuine Land Pride parts. Therefore, should your mower require replacement parts go to your Land Pride Dealer.

For parts and service to your mower engine, contact your nearest engine dealer or call Customer Service Hotline provided below.

Owner's Manual Part No.

Honda - 24 HP 31ZJ4621
Kaswaski - 25 HP 99920-2145-10
Kaswaski - 31 HP 99920-2232
Kohler - 27 & 30 HP 24 590 02

Service Manual Part No.

Honda - 24 HP 61ZJ410Z
Kaswaski - 25 HP 99924-2045-02
Kaswaski - 31 HP 99924-2089-01
Kohler - 27 & 30 HP TP-2450-C

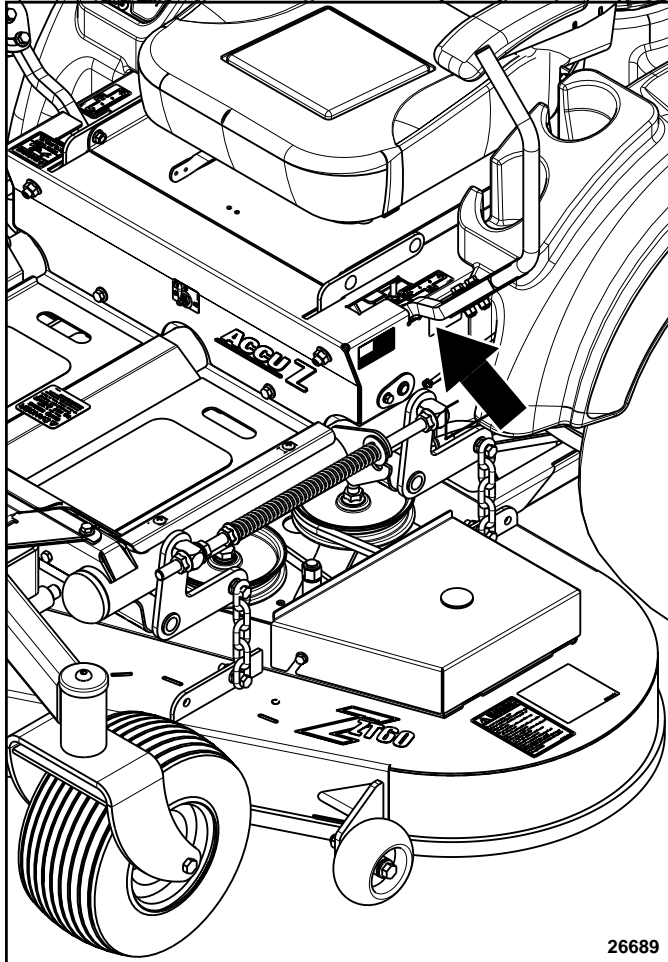
Service Hotline Phone No.

Honda 1-770-497-6400
Kaswaski 1-800-433-5640
Kohler. 1-800-544-2444

Introduction

Serial Number Plate

For prompt service always use the serial number and model number when ordering parts from your Land Pride dealer. Be sure to include your serial and model numbers in correspondence also. Refer to Figure 1 for the location of your serial number plate.



Serial Number Plate Location
Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new mower. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

1. Discuss the matter with your dealership service manager making sure he is aware of any problems you may have and that he has had the opportunity to assist you.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem and request assistance.
3. For further assistance write to:

Land Pride Service Department
1525 East North Street
P.O. Box 5060
Salina, Ks. 67402-5060
E-mail address
lpservicedept@landpride.com

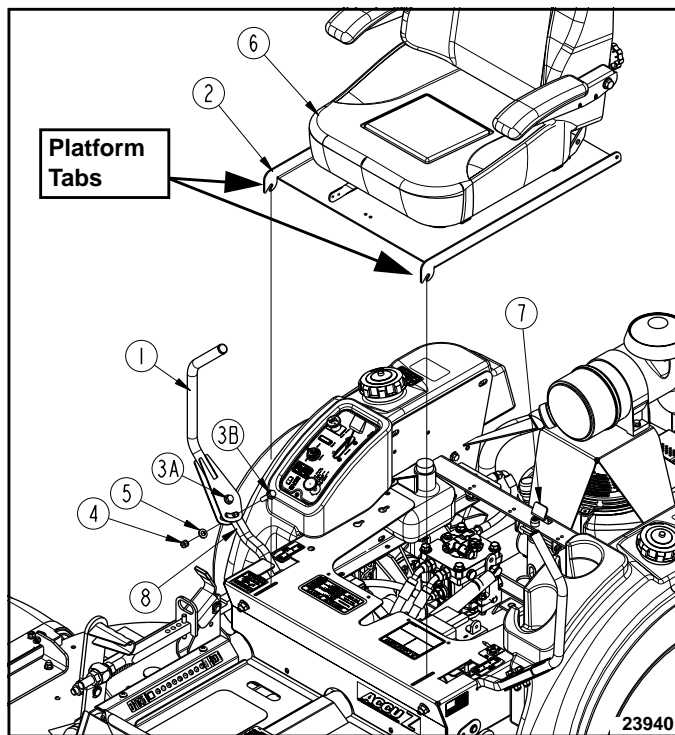
NOTE: For correct torque values, refer to "Torque Values Chart" on page 58.

NOTE: To make final control lever adjustments, see "Upper Control Lever Adjustments" on page 27.

Uncrating Instructions

The shipping crate is assembled together at the corners with nails and the Accu-Z is secured to the crate floor with metal bands.

1. First pry the top panel free with a pry bar. Then remove the side panels in the same way.
2. Cut metal bands securing front and rear wheels to the crate floor. Discard bands.
3. Complete assembly instructions and engine preparations below before driving mower off the crate floor.



Control Lever & Seat Assembly (Standard Seat Shown)
Figure 1-1

Control Lever Assembly

Refer to Figure 1-1:

Control levers (#1) are factory shipped rotated down and secured with bolts in control levers.

1. Loosen bolt (#3A) on upper right control lever (#1).
2. Remove bolt (#3B) from lower right control lever (#8).
3. Rotate control lever up until slot in upper control lever aligns with hole in lower control lever.
4. Reinstall 3/8"-16 1 1/2" GR5 hex head bolt (#3B), flat washer (#5) and 3/8" nylon lock nut (#4).
5. Repeat steps 1 to 4 for the left control lever.
6. Align control lever handles with each other and tighten bolts (#3A & #3B) to the correct torque.

Seat Assembly

Refer to Figure 1-1:

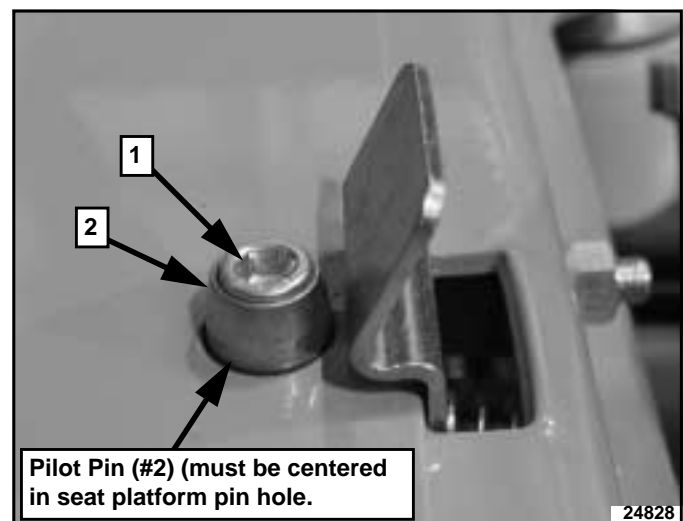
The seat (#6) is shipped factory mounted to the hinged seat platform (#2) and attached to the shipping crate with four lag bolts.

IMPORTANT: Be careful not to cut seat material when removing protective packing around the seat. **Cutting seat material will void its warranty.**

1. Remove four lag bolts securing seat platform (#2) to the shipping crate.
2. Spread control levers (#1) fully apart before attaching the seat platform to the mower frame.
3. Pivot arm rest on the Deluxe Seat up.
4. Pivot back side of seat platform (#2) up about 45 degrees and insert platform tabs through slots in the mower platform and onto pins just below the slots.
5. Connect mower switch wires to the seat switch located under the seat.

Refer to Figure 1-2:

6. Hinge seat platform down. The platform will latch automatically. The following must be done if the seat platform does not fit over the pilot pin (#2).
 - a. Loosen 3/8"-16 hex socket head cap screw (#1).
 - b. Adjust pilot pin (#2) to be centered in the seat platform pin hole.
 - c. Tighten 3/8"-16 hex socket head cap screw (#1).
7. Being careful not to cut seat material, remove protective packing around seat.
8. See "Seat Adjustment" on page 27 for positioning this seat forward and rearward.



Seat latch Adjustment
Figure 1-2

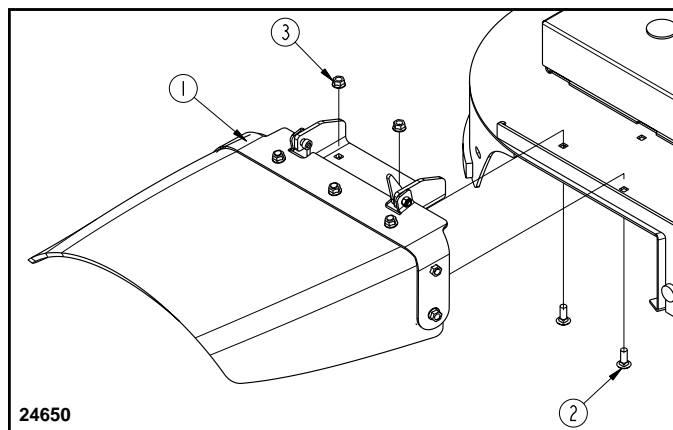
Section 1: Assembly & Set-up

Discharge Chute Assembly

Refer to Figure 1-3:

Model ZT72 riding mower discharge chute is shipped loose. ZT60 discharge chute is shipped attached.

1. Attach discharge chute (#1) to the deck by inserting 3/8"-16 x 1" GR5 round head square neck bolts (#2) up through the deck bottom as shown.
2. Secure with 3/8" flanged locknuts (#3). Tighten nuts to correct torque. See Torque Chart on page 58.



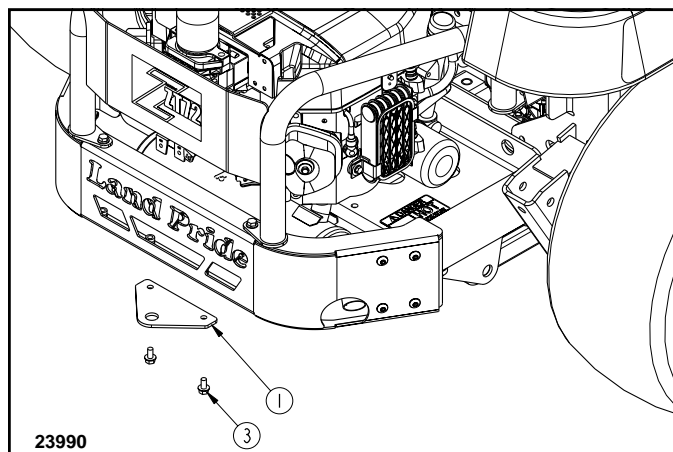
Discharge Chute Assembly
Figure 1-3

Hitch Plate Assembly

Refer to Figure 1-4:

A hitch plate (#1) is supplied with the mower and is shipped turned around backwards and mounted to the rear bumper.

1. Remove two 5/16"-18 x 5/8" GR5 hex flange screws (#2) and hitch plate (#1) from under the bumper.
2. Rotate and reinstall hitch plate (#1) as shown with existing 5/16"-18 x 5/8" GR5 hex head flange screws.
3. Tighten 5/16" hex head flange screws (#2) to 17 ft. lbs. of torque.



Hitch Plate Assembly
Figure 1-4

IMPORTANT: Do not pull a trailer or implement exceeding 300 pounds towing capacity and 50 pounds tongue weight. Loss of control may result. Do not make turns that will cause a trailer or implement being towed with the hitch to come in contact with the mower or damage may result.

Electrical Cable Connection

Refer to Figure 1-5:



WARNING

Incorrect battery cable connections can damage the mower's electrical system and cause battery cables to spark. Sparks around a battery can result in a battery gas explosion and personal injury.

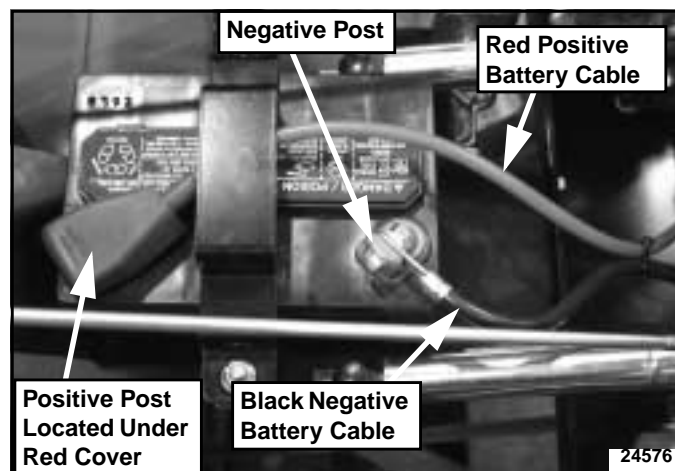
- Always **disconnect** negative (black) battery cable before disconnecting positive (red) cable.
- Always **reconnect** positive (red) battery cable to the positive (+) post before reconnecting negative (black) cable to the negative (-) post.



WARNING

Keep battery terminals from touching any metal mower parts when removing or installing the battery. Do not allow metal tools to short between the battery terminals and metal mower parts. Shorts caused by battery terminals or metal tools touching metal mower components can cause sparks. Sparks can cause a battery gas explosion which will result in personal injury.

Connect the black negative battery cable to the battery's negative post with 1/4"-20 x 3/4" GR5 hex head serrated screw, flat washer, lock washer and nut before starting the mower. Tighten hex nut to 8 ft. lbs. of torque.



Connecting the Negative Cable
Figure 1-5

IMPORTANT: The negative battery cable is disconnected before leaving the factory and is to be disconnected after initial dealer set-up to prevent battery discharge while setting on the dealer lot.

Section 1: Assembly & Set-up

Engine Preparations

1. Check engine oil level at the dipstick. Add oil if oil is below the full mark on the dipstick. **Do not overfill.** Refer to engine manual for oil recommendation. Also see "Engine Oil and Oil Filter" instructions on page 42.

NOTE: Mowers are shipped from the factory with the fuel tanks empty.

2. Add gasoline with a fuel stabilizer to perform initial starting operations. See "Fuel System" instructions on page 41 before adding fuel.

Remove Mower From Crate Floor

IMPORTANT: Thoroughly read and understand "Section 2: Operating Procedures", pages 13 to 21 before starting and moving the mower.

1. Make a ramp in front and level with the crate floor to be used for driving the mower off.
2. Check under the mower to make sure it is not banded to the crate floor. Remove any bands that are still present.
3. Following all precautions and operating information provided in "Section 2: Operating Procedures" before starting and driving the mower off.
4. Raise the deck fully up.
5. Start the engine and drive the mower forward off the crate floor.
6. Make necessary adjustments to the mower as outlined in "Section 3: Adjustments" beginning on page 23.

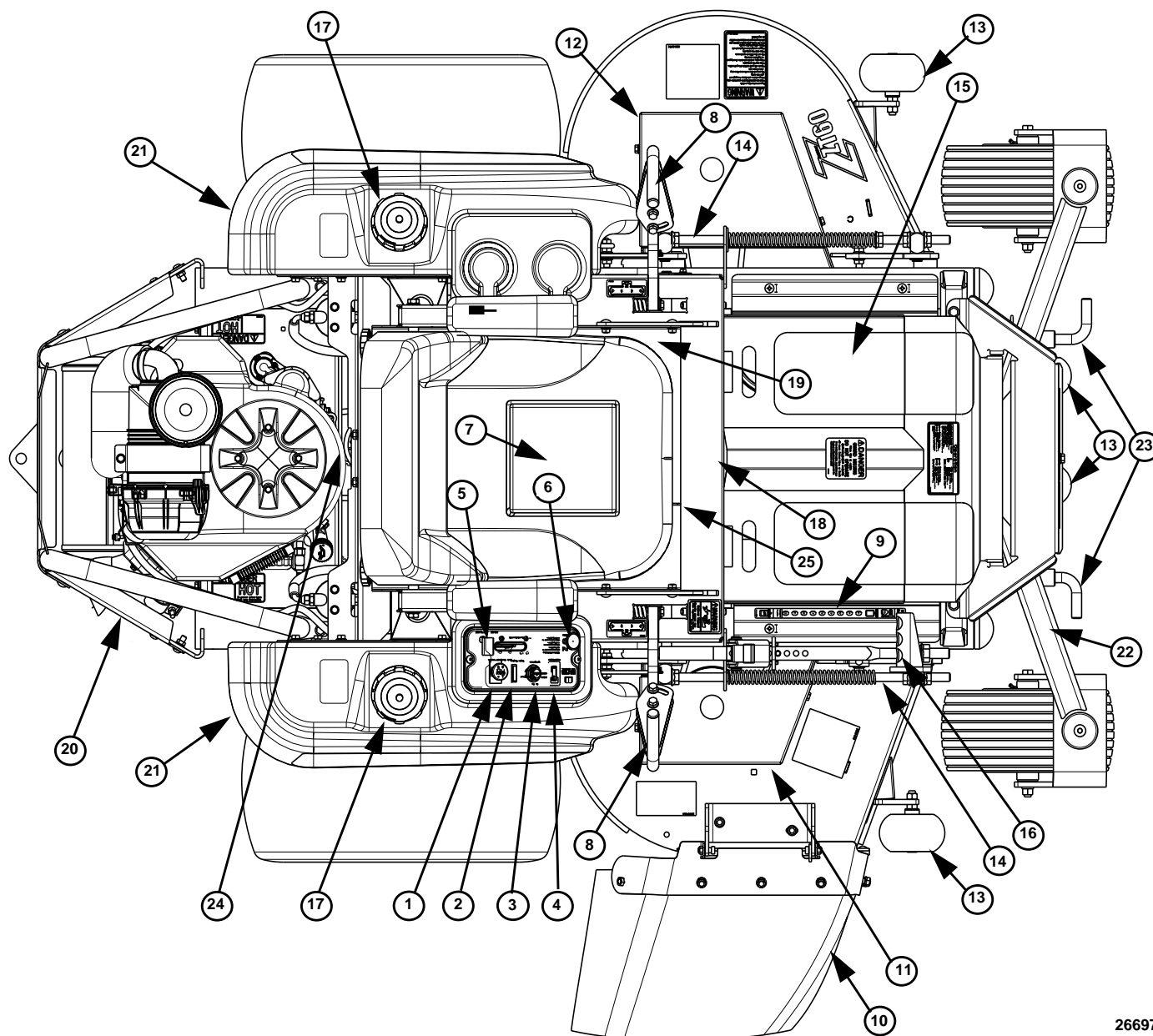
Section 2: Operating Procedures

Mower Features

Refer to Figure 2-1:

Your Accu-Z riding mower is designed with innovative and state-of-the-art features. Knowing the location and

how these features work will make handling your mower more comfortable. Below is a list of major features we will be reviewing in this section.



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- | | | |
|-------------------------------------|---|--|
| 1. Blade Engagement Switch | 10. Discharge Chute (Guard) | 19. Seat Platform (Guard) |
| 2. Oil Pressure Light | 11. Right Deck Cover (Guard) | 20. Rear Bumper/Muffler Shield (Guard) |
| 3. Ignition Switch | 12. Left Deck Cover (Guard) | 21. Brake Release
(Located at rear under gas tanks) |
| 4. Hour Meter | 13. Anti-Scalp Wheels | 22. Floating Axle |
| 5. Throttle Lever | 14. Deck Adjusting Rod | 23. Front Axle Lock Pins |
| 6. Choke Knob | 15. Floor Platform (Guard) | 24. Seat Release Latch |
| 7. Battery (Located under the seat) | 16. Deck Lift Pedal | 25. Seat Adjustment Latch |
| 8. Control Levers | 17. Fuel Caps & Tanks | |
| 9. Deck Height Indicator | 18. Left/Right Fuel Tank Valve
(May be located on either side) | |

Accu-Z Features

Figure 2-1

Section 2: Operating Procedures

Operating Check List

Hazard control and accident prevention are dependent upon awareness, concern, prudence and proper training involved in operation, transport, maintenance and storage of the riding mower. Therefore, it is absolutely essential that no one operates the mower without first having read, fully understood and become totally familiar with the Operator's Manual. Make sure the operator has paid particular attention to:

- **Important Safety Information**, pgs. 1 to 7
- **Section 1: Assembly & Set-up**, pg. 10
- **Section 2: Operating Procedures**, pgs. 13 to 21
- **Section 3: Adjustments**, pgs. 23 to 31
- **Section 5: Maintenance & Lubrication**, pgs. 34 to 51

The following Operating Checklist should be performed before operating your mower:

Operating Checklist

✓	Check	Reference
	Read "Important Safety Information"	Page 1
	Read "Operating Procedures"	Page 13
	Lubricate mower as needed. Refer to <i>Lubrication</i> .	Page 50
	Check mower safety start interlock system daily prior to operation.	Page 16
	Check mower initially and periodically for loose bolts & pins, <i>Torque Values Chart</i> .	Page 58
	Make sure all guards and shields are in place.	Page 13
	Check blade for nicks and sharpness.	Page 47

Instrumentation

Engine Oil Pressure Light

Refer to Figure 2-2:

This light comes on when ignition switch is placed in **RUN** position and stays lit until the engine is running with a safe oil pressure. Shut engine off immediately if light comes on during operation. Locate and correct the problem.

Hour Meter

Refer to Figure 2-2:

Registers 1/10 hour increments up to 9,999.9 total hours. The meter is connected to the ignition switch and records accumulative time only while the engine is running. See "Maintenance Schedule" on page 35.

Controls

For general location of controls described in this section, refer to Figure 2-1: on page 13 and Figure 2-2.



WARNING

Do not operate mower while smoking!

Ignition Switch

Refer to Figure 2-2:

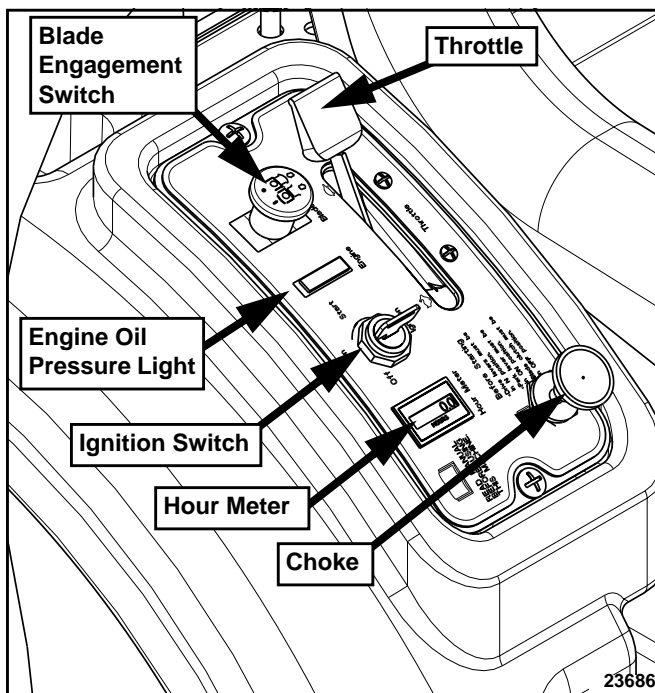
A three position ignition switch: off, run, and start is provided. With key inserted, rotate it clockwise to **START** position; release key when engine starts, and switch will automatically return to **RUN** position. Turn key counterclockwise to **OFF** position to stop engine.

Throttle

Refer to Figure 2-2:

A cable is linked from engine to throttle for controlling engine speed. Move throttle lever forward to increase engine rpm and rearward to decrease rpm. Always travel and cut grass with throttle set at full engine rpm speed. Slow down travel speed by pulling back on the control levers. Slow engine rpm speed only if mower is not traveling or powering the cutting blades.

IMPORTANT: Always operate throttle at full engine rpm speed while traveling or cutting grass. Slow engine rpm may overheat the engine.



Control Panel
Figure 2-2

Section 2: Operating Procedures

Choke

Refer to Figure 2-2 on page 14:

A cable is linked from engine to choke knob to choke the engine during starting. When choke control knob is down, the choke is off (engine running position). When control knob is pulled up, the choke is on (engine starting position). Shut choke off soon after engine has started.

IMPORTANT: DO NOT operate mower with the choke pulled up or on. (engine starting position).

Blade Engagement Switch

Refer to Figure 2-2 on page 14:

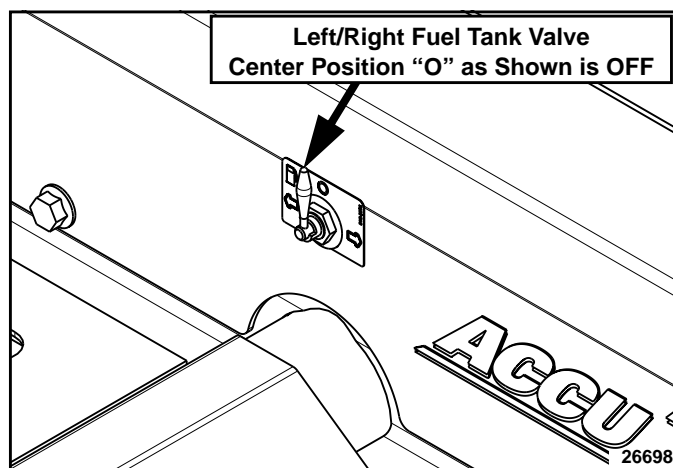
The blade engagement switch engages the deck blades. Pull switch up to engage blades and push switch down to disengage blades.

IMPORTANT: Never engage blades with engine running at high rpm or when the deck is under load. Clutch, belts or deck could be damaged.

Left/Right Fuel Tank Valve

Refer to Figure 2-3:

Located in front and below the seat is the Left/Right Fuel Tank Valve for controlling which fuel tank is in use. The valve lever must be over one of the two arrows to supply fuel to the engine. Arrows point to the fuel tank being used. Switch valve from one tank to the other when tank in use is about out of fuel. The mower does not have to be turned off to make the switch. See "Fuel System" on page 41 for more information.



Left/Right Fuel Tank Valve
Figure 2-3

Control Levers

Refer to Figure 2-4 & Figure 2-5:

The control levers are used to steer, accelerate, brake and change direction.

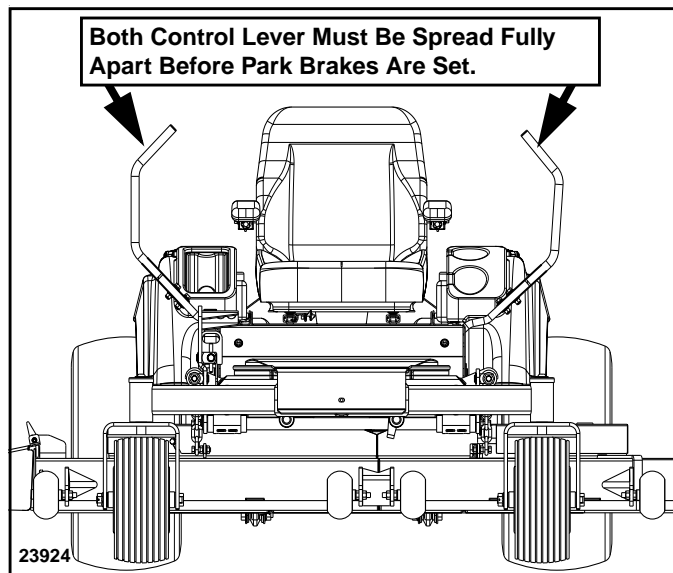
Always set both control levers in park position before getting off the mower and always leave control levers in park until seated and ready to start traveling.

Pull control levers together at the handles to release park brakes. Move control levers either forward or rearward from neutral position to start moving.

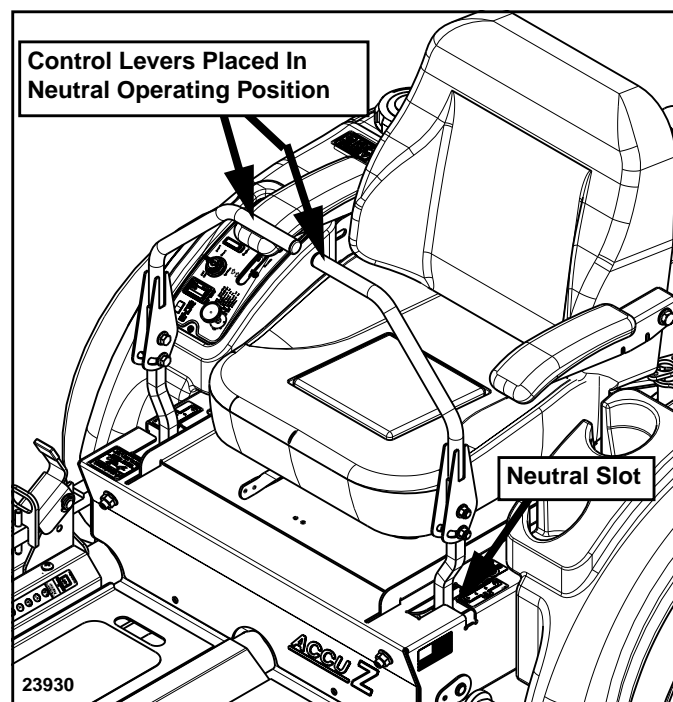
Move the control levers to neutral to stop and to park to set park brakes.

IMPORTANT: Both control lever must be spread fully apart before park brakes are applied.

See "Driving the Mower" on page 17 for a detailed description of operating the control levers.



Control Levers (Set in Park Position)
Figure 2-4



Control Levers (Set In Neutral Position)
Figure 2-5

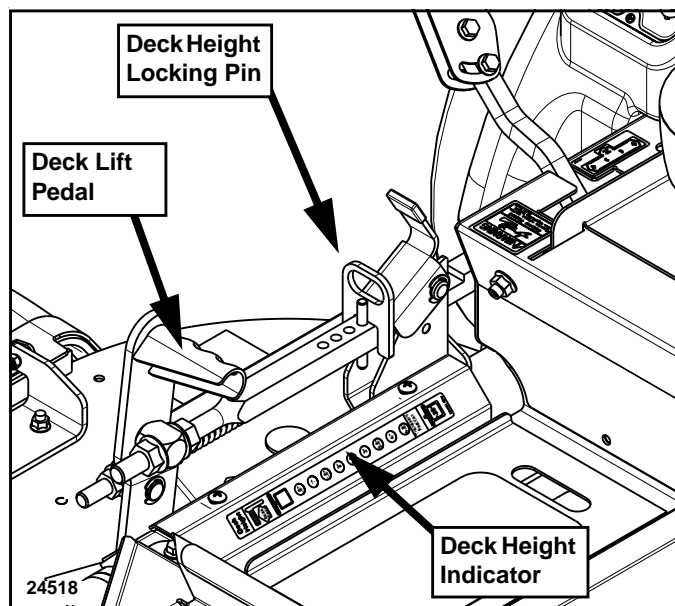
Section 2: Operating Procedures

Deck Lift Pedal

Refer to Figure 2-6:

The deck lift pedal is used to raise and lower the deck and to set deck cutting height.

1. Pushing on the deck lift pedal with your foot will raise the deck.
2. Using the deck height indicator, place deck height locking pin into the desired cutting height hole.
3. Lower deck gently against locking pin.



Deck Lift Pedal
Figure 2-6

When going over obstructions, push the deck lift pedal to raise the deck. Go around the obstruction if the deck will not raise high enough. **Never mow over obstructions you are not certain the deck will clear.**

Safety Start Interlock System

The mower is equipped with a safety start interlock system consisting of park switch, seat switch and blade engagement switch. This system is an important mower safety feature designed to prevent runaway or accidental entanglement.

If blade engagement switch is **ON** or if a control arm is out of park and the operator gets off the seat, the engine will stop.

If blade engagement switch is **OFF** and both control arms are in park and the operator gets off the seat, the mower engine will continue to run.

The safety start interlock system should be checked daily prior to operation and repaired immediately if it malfunctions. Inspect system as follows:

1. The operator must be on the seat when testing the seat safety switch.
2. Spread both control levers fully apart.

3. Start mower engine per instructions outlined in section on Engine Starting below. Allow engine to warm up to operating temperature.
4. With blade engagement switch down (**OFF**), and control levers spread fully apart (set in park position), slowly raise off the seat. The engine should continue to run.
5. Pull the right control lever in and slowly raise off the seat. The engine should **stop** within five seconds.
6. With control levers spread fully apart, restart engine.
7. Pull the left control lever in and slowly raise off the seat. The engine should **stop** within five seconds.
8. With control levers spread fully apart, restart engine.
9. With control levers set in park position (fully apart) and engine running at a slow idle, pull up on the blade engagement switch to turn blades (**ON**). Slowly raise off the seat. The engine should **stop** within five seconds.
10. Replace seat safety switch if switch failed to operate properly in any of the above steps and if no other cause such as damaged wiring can be determined.
11. Contact your local Land Pride Dealer if the problem cannot be located.

Engine Starting



WARNING

Never leave the machine unattended with key in ignition switch.

The Accu-Z safety start interlock system is also designed to protect the operator and others from accidental injury due to unintentional engine starting.

NOTE: The starting motor will not engage until both control levers are spread full apart (Set in park position) and blade engagement switch is in down position (**OFF**).

The engine will stop if for any reason the operator should become unseated when one or more control levers are not in park position or if blade engagement switch is (**ON**).

The following steps are correct procedures for starting the engine. If difficulty is encountered, contact your local Land Pride Dealer.

1. Perform daily pre-operation checks. (See **"Operating Check List"** on page 14.)
2. Make sure both control levers are in park position, and blade engagement switch is disengaged (**OFF**).
3. Set throttle at approximately 1/2 open position.

NOTE: Use choke when engine is cold or if warm engine fails to start within 5 seconds of cranking. Avoid flooding. Operate engine without choking as soon as possible.

Section 2: Operating Procedures

NOTE: The engine starter should not be operated for periods longer than 30 seconds at a time. An interval of at least two minutes should be allowed between such cranking periods to protect the starter from overheating and burn-out.

4. Insert key in ignition switch and rotate clockwise to engage starting motor. Release key when engine starts.
5. Perform test to make sure safety start interlock system is operating properly. Refer to **"Safety Start Interlock System"** on Page 16.
6. As soon as engine begins to run, check to make certain the oil warning light is off. If not, stop engine immediately and check for the cause. Refer to **"Troubleshooting"** on page 56.
7. Allow engine to idle a few minutes before advancing throttle and/or engaging blades.
8. Before stopping the engine:
 - Disengage blade engagement switch.
 - Place both control levers in park position.
 - Throttle back to low idle for one minute to allow accumulated raw fuel to escape muffler during engine slow down.
 - Rotate ignition key counter-clockwise to **(OFF)** position.
 - Remove key from switch before leaving the seat.

Driving the Mower



DANGER

Never make sudden stops or sudden reversing of travel direction, especially when going down a slope. The steering is designed for sensitive response. Rapid movement of control levers in either direction could result in a reaction that can cause serious injury.



DANGER

Never make sudden speed changes from reverse to forward. Always push control levers forward gently to avoid sudden change in speed. Any sudden forward speed change can cause the front wheels to raise off the ground resulting in loss of control, mower damage and/or personal injury.

To Start and Increase Speed

Refer to Figure 2-7 on page 18:

After starting the engine, engage control levers by moving the handles towards each other. This moves the levers from park position to neutral position and makes them ready for steering while traveling.

Moving control levers an equal distance away from neutral will increase travel speed.

- Start forward travel by gently pushing on the control levers. The further forward the control levers are pushed the faster the travel speed.

- Start backing up by gently pulling on the control levers. The further back the control levers are pulled the faster the travel speed.

To Decrease Speed and Stop



WARNING

In the event of a system shutdown while mowing, move control levers to neutral and spread them fully apart to aid in slowing and stopping the mower. See Figure 2-4 on Page 15. Also turning the ignition switch to off will set the rear park brakes without positioning of the control levers in park.

Refer to Figure 2-7 on page 18:

Moving control levers an equal distance towards neutral will decrease travel speed.

- When moving forward, pull back gently on control levers to decrease speed. The further back the control levers are pulled the slower the travel speed until neutral is reached.
- When backing up, push forward gently on control levers to decrease speed. The further forward the control levers are pushed the slower the travel speed until neutral is reached.
- Move control levers to neutral to stop.
- Spread both control levers fully apart to apply rear park brakes.

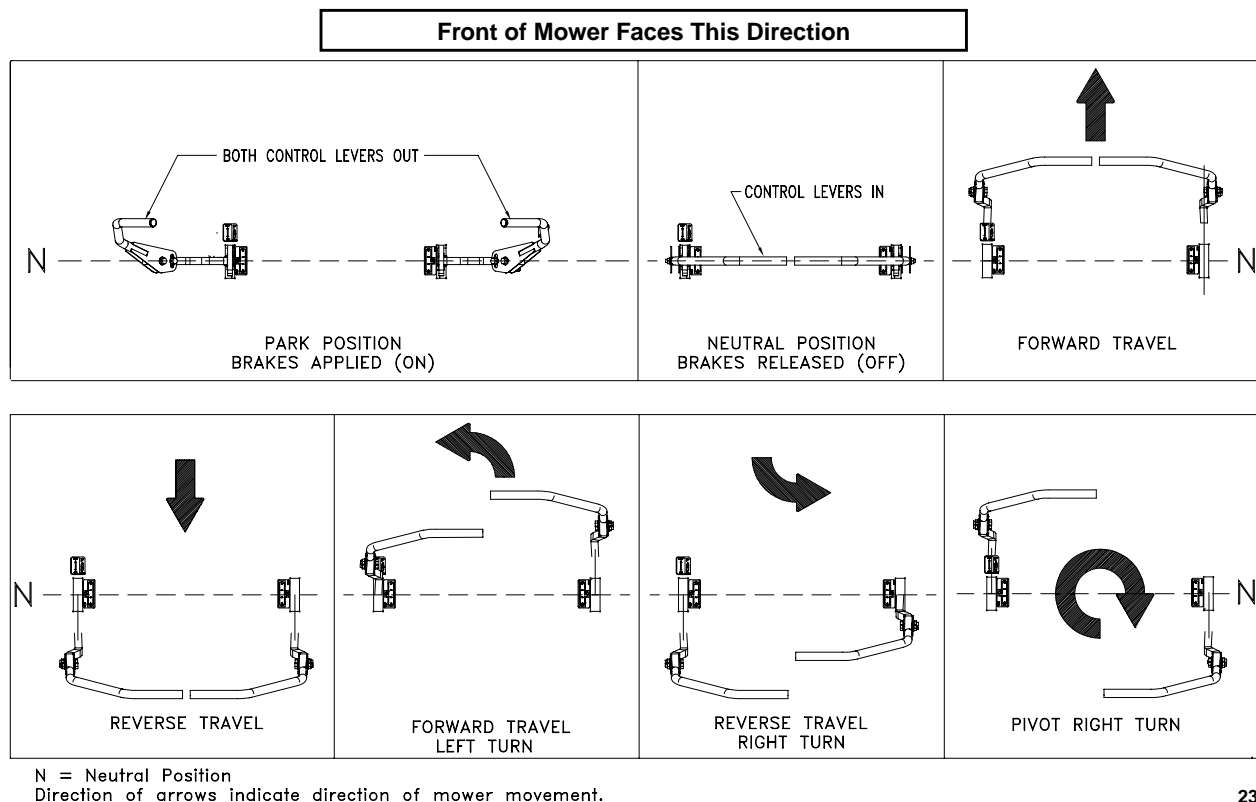
IMPORTANT: Parks brakes will automatically apply when ignition switch is turned off. This allows the operator to set park brakes quickly without returning control levers to park.

To Steer

Refer to Figure 2-7 on page 18:

- To Steer Straight While Traveling Forward:
Push control levers forward an equal distance.
- To Steer Straight While Backing Up:
Pull control levers rearward an equal distance.
- To Turn Left While Traveling Forward:
Move right control lever farther forward from neutral than the left control lever.
- To Turn Left While Backing Up:
Move right control lever farther back from neutral than the left control lever.
- To Turn Right While Traveling Forward:
Move left control lever farther forward from neutral than the right control lever.
- To Turn Right While Backing Up:
Move left control lever farther back from neutral than the right control lever.
- To Make A Pivot Turn:
Move one control lever forward and the other control lever back of neutral, this will allow the drive wheels to counter-rotate.

Section 2: Operating Procedures



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Figure 2-7

Moving Mower with Stalled Engine

Refer to Figure 2-8:

Located under the seat are two hydro-drives. One on the right side and one on the left side. Each hydro-drive is equipped with a bypass valve for moving the mower manually when the engine is inoperable. The bypass valve is located to the inside near the top and is identified as a hex stud. Before moving mower manually:

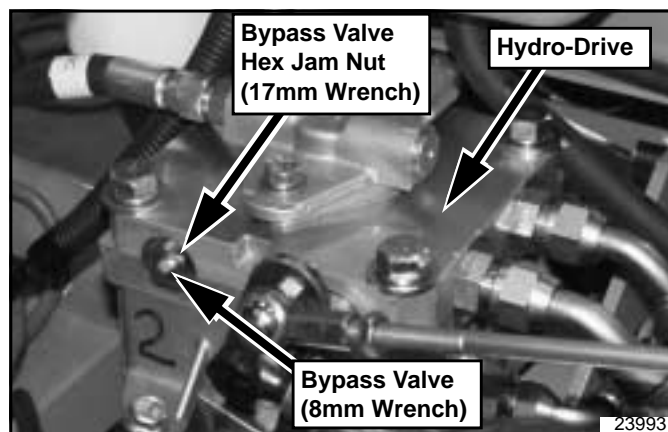
1. Loosen hex jam nuts with 17mm wrench and turn both bypass valves with 8mm wrench counter clockwise one-half of a turn.
2. If the mower has electrical power, turn ignition switch to **(ON)** and position both control levers in neutral with handles together to release park brakes.

Refer to Figure 2-9:

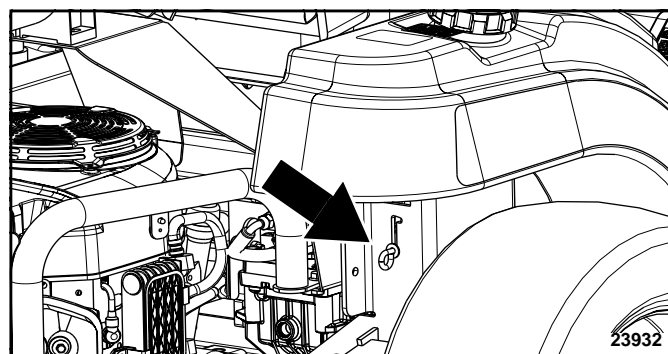
3. If mower has lost electrical power, manually release park brakes with release levers located at the rear under the gas tanks. Raise levers and position them into the notched slots. A pry bar leveraged over the tires may be required to overcome the spring forces required to set the park brakes.

IMPORTANT: Do not tow the machine. Move it by hand or use a winch and load it on a trailer.

IMPORTANT: Following repairs and before operating the mower, always make certain the two bypass valves and two park brake release levers are returned to their normal operating positions.



Bypass Valve (Left Side Shown)
Figure 2-8



Park Brake Release Lever (Right Side Shown)
Figure 2-9

Section 2: Operating Procedures

Safe Operating Instructions

The safe operation of any machinery is a big concern to all consumers. Your Zero Turn Riding Mower has been designed with many built-in safety features. However, no one should operate this mower before carefully reading this Operator's Manual. Also read all instructions noted on the safety decals.

- ▲ Be familiar with all functions of this mower.
- ▲ Do not operate a mower with damaged parts. Repair all damaged parts before putting mower back in to service.
- ▲ Keep all bystanders away from this mower during operation.
- ▲ Do not allow anyone to operate this mower who has not fully read and comprehended this manual and who has not been properly trained in safe operation of this mower.
- ▲ Do not allow anyone under 16 years of age to operate this mower.
- ▲ No riders allowed. Carrying a rider can result in injury and/or death to the rider and operator.
- ▲ Do not operate mower while drinking or under the influence of alcohol or drugs.
- ▲ Always park on level ground, place both control levers in park position and remove ignition key before leaving the mower.
- ▲ Do not leave mower unattended with engine running.
- ▲ Always operate mower with belt guards installed. Do not leave pulleys and belts exposed.
- ▲ Wear snug-fitting clothing to avoid entanglement with moving parts.
- ▲ Keep hands, feet, long hair, clothing and jewelry away from moving parts and obvious pinch points to avoid getting caught.
- ▲ Always be aware of and avoid tree limbs and brush that have a potential of hitting and/or poking one while riding the mower. Serious bodily harm could result.
- ▲ Always wear long pants, safety glasses and safety shoes. Some conditions may warrant extra safety gear to be worn such as safety helmets.
- ▲ Do not touch engine, engine exhaust pipe and/or muffler while they are hot.
- ▲ Use extreme caution when driving through dry grass, brush and other fire hazard materials. Never stop or park over combustible materials. Keep grass and brush from collecting on and around engine and muffler parts.
- ▲ Battery fumes are explosive. A spark will ignite battery fumes. Wear a face shield when charging or jumping a battery. Follow all battery safety rules outlined in this manual.
- ▲ Avoid battery acid spills. Do not get battery acid on eyes, face, or other body parts. Flush eyes and other body parts immediately with water for at least 15 minutes if battery acid has gotten on them.
- ▲ Do not operate this mower on streets, highways, public roads, or where it may be a hazard to faster moving traffic.
- ▲ Never attempt wheelies, jumps, or other stunts. Never drive recklessly. Always operate your mower at a safe speed that will allow you to maintain control.
- ▲ Never modify engine RPM, or any parts on the mower without authorization. Unauthorized modifications will void warranty to all parts directly and indirectly affected by the modification.
- ▲ Do not pull a trailer or implement exceeding a gross weight of 300 pounds and 50 pounds tongue weight. Loss of control may result. Do not make turns so sharp as to cause trailer or implement being towed to come in contact with the mower. Damage may result.
- ▲ Do not attach an implement, trailer or other device to the hitch that will produce negative tongue weight.
- ▲ Do not tow the mower with its wheels on the ground. Always tow the mower loaded on a trailer.
- ▲ Use extreme caution when cresting hills or when visibility is limited. Proceed slowly until you are sure conditions immediately ahead are safe.
- ▲ Reduce speed on hilly, rough, wet, slick or unstable ground. Do not operate mower on slopes over 15°.
- ▲ Do not operate mower at night. With poor visibility, night operation can lead to a serious accident.
- ▲ When refueling use a UL listed container that has a screen or filter. Set container on the ground before fueling to eliminate static discharge. Do not use Methanol fuel.
- ▲ Do not smoke or use electrical devices including cell phones while refueling.
- ▲ Always maintain proper tire inflation. See "Tires" on page 38.
- ▲ Always disconnect the negative battery terminal before making adjustments to the mower electrical system or welding on this mower.
- ▲ Always check wheel lug nut torque values two hours after initial operation and two hours after each tire repair and/or replacement. Routinely check lug nut torque valves every 50 hours of operation. See "Torque Values" on page 23.
- ▲ Support this mower securely before working beneath. Chock wheels to prevent mower from rolling.

Section 2: Operating Procedures

DANGER

Prior to operating the mower the operator should be thoroughly familiar with the proper use and operation of the equipment, should read the manual completely and thoroughly, and should have attempted slow moving maneuvers to become familiar with the operation of the equipment before attempting normal speed operation. An inexperienced operator should not mow on slopes or on uneven terrain.

WARNING

Do not operate the mower while wearing any type of loose fitting clothing. Always wear safety glasses, clothing that does not hang loosely, and shoes or boots when operating this machine.

WARNING

The tailpipe and muffler are very hot and can ignite dry grasses, brush and other flammable materials. Always keep area around the muffler and tailpipe clear of debris. Allow the muffler and tail pipe to cool completely before removing any debris to prevent severe burns to the body.

WARNING

Never direct discharge of material from mower deck towards bystanders.

WARNING

Never operate the mower deck with discharge chute removed or in raised position.

WARNING

Always check area to be mowed for rocks and other debris before mowing.

The mower's control levers are very responsive. For smooth operation, move levers slowly, avoid sudden movement. Skill and ease of operation come with practice and experience.

Inexperienced operators may have a tendency to over-steer and lose control. Slow-moving practice maneuvers are recommended to become familiar with these characteristics before attempting normal speed operation.

Sharp depressions or raised obstacles (such as gutters or curbs) should not be directly approached at high speed in an attempt to jump them as the operator could be thrown from the mower. Approach at a slow speed and angle one drive wheel at the obstruction. Continue at an angle until both wheels clear the obstruction.

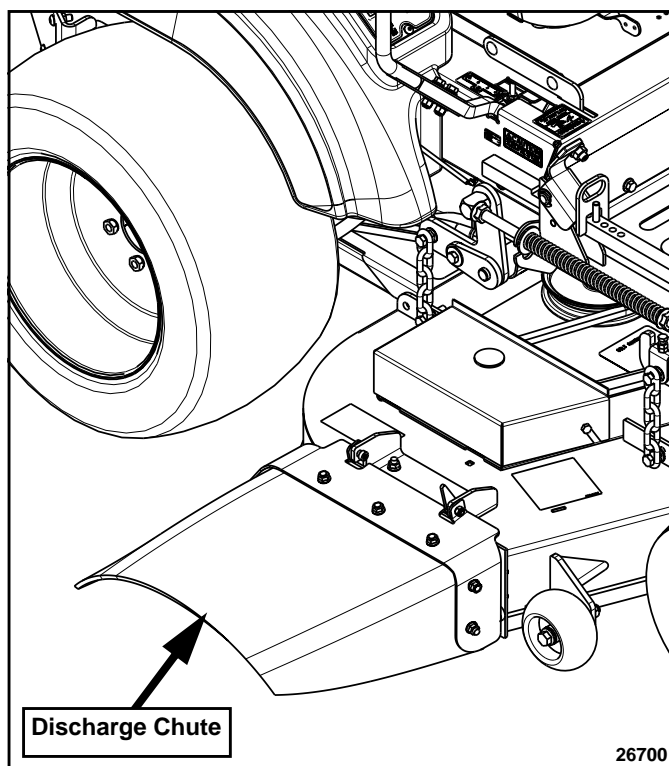
When turning on soft wet turf, keep both wheels rolling either forward or backward. Pivoting on one stopped wheel can damage turf.

Peak mowing performance is maintained when the throttle is set at full rpm. This gives maximum power to the drive wheels and deck when needed. Use control levers to control ground speed rather than engine rpm.

Keep blades sharp. Many problems with incorrect cutting patterns are due to dull blades or blades which have been sharpened incorrectly. Information on sharpening blades is listed in this manual's maintenance section. In addition, most communities have individuals or companies which specialize in sharpening mower blades. Blade sharpness should be checked daily.

Use high blade speed. Your Accu-Z is designed to operate at full throttle. The throttle setting directly controls blade speed. The highest blade speed generally gives the best cut.

Select a mowing pattern that discharges cut grass away from uncut grass. Generally, this means using a pattern utilizing left turns because the mower discharges cut grass to the right. Refer to Figure 2-10. In any case, avoid discharging cut grass onto an unmowed area because grass is then mowed twice. Mowing twice puts an unnecessary load on the mower and reduces mowing efficiency.



Discharge Chute
Figure 2-10

Section 2: Operating Procedures

Mower Deck Operation

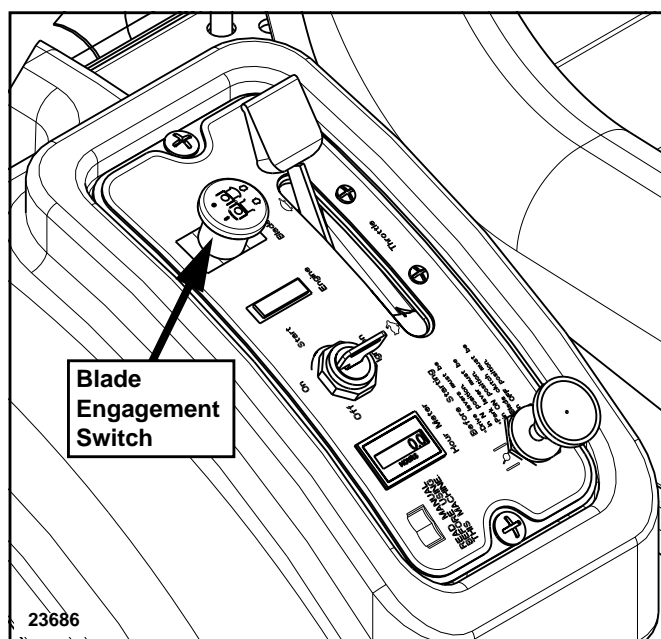


DANGER

Never attempt to make any adjustments to the mower deck while the engine is running or when the blades are engaged. Mower blades cannot be seen and are located very close to deck housing. Fingers and toes can be cut off instantly.

With engine running at a medium speed, engage blades (Refer to Figure 2-11). Advance engine throttle to full rpm once the blades have become fully engaged.

NOTE: Engaging blades at high engine rpm or when under heavy load (in tall grass for example) can cause belts to slip, resulting in premature wear or possible damage.



Blade Engagement Switch
Figure 2-11

General Operating Information

After thoroughly familiarizing yourself with the Operator's Manual and completing the Operator's Checklist, you are almost ready to begin mowing.



CAUTION

Mower deck and operator platform can be slippery when wet. Always make sure your footing is secure when climbing onto the mower to be seated.

Approach the mower from the front and make sure the steering levers are spread fully apart in parking brake position. Stand just to the outside rear of the left front anti-scalp wheel and with your right hand grab the left side steering lever for support. Be careful not to slip while climbing onto the mower to be seated. Step up onto the operator's platform and comfortably seat yourself. With

both steering levers still wide apart, reach for the throttle and choke control to your right side. Position the throttle control at half throttle and pull choke to the "up/on" position. Insert your ignition key and rotate the ignition key clockwise until you hear the engine begin to start. Release the ignition key and push the choke to "down/off" position. Allow the engine to warm up momentarily. If your mower has just been running and the engine is already warm, using the choke is probably not necessary.

With the engine at half throttle reach forward and bring both steering levers equally together in the neutral position just in front of you. It's now time to test your steering skills. Gently push both steering levers equally forward. The farther forward you push the levers the faster you will go. Pull back equally and you will slow down coming to a stop when you reach the neutral position. Now slowly pull the levers back toward your body past neutral position. The mower will reverse direction and increase in speed as you pull further back. If you push one lever forward and pull one lever back the mower will do a Zero turn in the direction of the steering lever closest to your body. Now take a few moments in a safe area to practice maneuvering and steering your mower with the engine still at half throttle. Gradually increase your throttle speed until you feel totally confident of your mower steering and handling ability around obstacles and in tight areas.

It's now time to cut the grass. Hopefully you have already removed any obstacles from the lawn that you do not want run over. With your mower at half throttle, place your right foot on the deck lift pedal and release and lower the deck to your preset cutting height. With your right hand, pull up on the cutting blade engagement knob and increase the engine speed to full throttle. You may now begin mowing. If you haven't already done so, you may want to put the front axle in float mode which will significantly smooth out the ride and deliver improved traction capability over uneven ground. The front axle can be quickly put back into the rigid mode if you need to keep the deck up when doing overhanging cuts along curbs or other landscape obstacles.

When you are done mowing or just want to take a break, make sure you do all of the following.

- Park on level ground if possible
- Disengage cutting blades
- Throttle back
- Leave steering levers in wide-open parking brake position
- Turn engine off
- Remove ignition key
- Step carefully off the left front corner of the operator's platform
- You may want to chock the wheels as an added measure of safety, if and when you must park on an incline.

Section 2: Operating Procedures

In the unlikely event that you lose electrical power and the Accu-Z shuts completely down, the electrically released braking system will immediately engage the automotive style drum brakes which will instantly stop the unit. This safety-braking feature can also be instantly engaged by either positioning the steering levers in wide-open position or simply turning off the ignition key. Should the engine fail for any reason and you need to push or pull the unit a short distance for loading or servicing, make sure you open the hydro-valve bypass valves, move the control levers to the drive position, and turn the ignition key to on position to release the brakes.

The Accu-Z ZT Series by Land Pride is a commercial duty mower designed to deliver professional cutting quality, while delivering productivity sustaining comfort over extended periods of operation. With just a little bit of practice you should become very good at operating this mower. See the "Features and Benefits" section of this manual for additional product information and performance enhancing options.

Section 3: Adjustments



WARNING

Unless specifically required, **DO NOT** have engine running when servicing or making adjustments to the mower. Place both control levers in the park position and remove ignition switch key. Read and observe safety warnings in front of manual.

Repairs or maintenance requiring engine power should be performed by trained personnel only. To prevent carbon monoxide poisoning, be sure proper ventilation is available when engine must be operated in an enclosed area.

Your Accu-Z was adjusted before it left the factory and was checked during pre-delivery set-up. However, after start-up and continued use, a certain amount of break-in wear will cause some adjustments to change.

Remain alert for unusual noises, they could be signaling a problem. Visually inspect the machine for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.



WARNING

Keep your machine clean. Remove heavy trash deposits and clippings from the machine. Keep all moving parts, hydraulic system, engine cooling system and exhaust system clean of trash and clippings. Accumulation of trash and/or clippings can cause fires, hydraulic overheating and excessive belt wear.

Clear away heavy build-up of grease, oil and dirt, especially in the area of oil, fuel and engine combustion air inlets and openings. Minute dust particles are abrasive to close-tolerance engine and hydraulic assemblies.

Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult your Land Pride service center when assistance is needed.

Torque Values



WARNING

Particular attention must be given to tightening the drive wheel lug nuts and blade spindle bolts. Failure to correctly torque these items may result in the loss of a wheel or blade, which can cause serious damage or personal injury.

NOTE: Refer to "Torque Values Chart" and "Additional Torque Values" on page 58 for correct torque values.

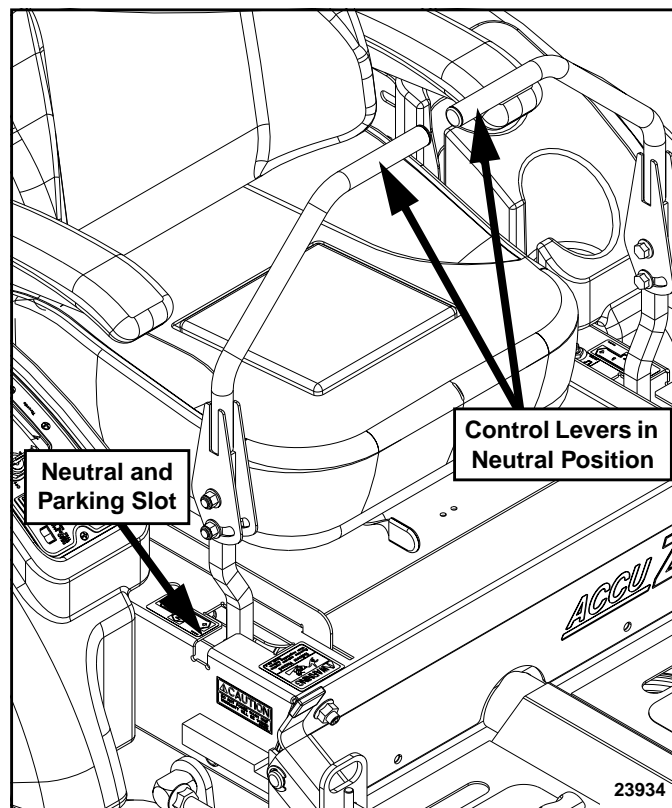
It is recommended that the following be checked after the first 2 hours of initial operation, and every 50 hours following removal for repair or replacement:

- Wheel lug nuts
- Wheel motor nuts
- Blade bolts
- For engine torque values, see engine owner's manual.

Neutral Creep Adjustment

Refer to Figure 3-1:

The steering has been factory adjusted to eliminate creeping when control levers are in neutral position. However, should the mower begin to creep, adjustments can be made to the pump linkage rods.



Control Lever In Neutral Position
Figure 3-1

Before considering any adjustment, check tire air pressure and make certain hydraulic oil is at operating temperature. Unequal tire pressure will cause the mower to drift to one side. Refer to "Tire Inflation Chart" on page 29 and page 58.

Adjustments for neutral position is made to the pump linkage rods located between the control lever and pump arms. The pump linkage rods are properly adjusted when control levers are in neutral position and drive wheels are not turning.

Section 3: Adjustments

Refer to Figure 3-2:

If the mower creeps in neutral position, adjust pump linkage rods, located under the seat, as follows:

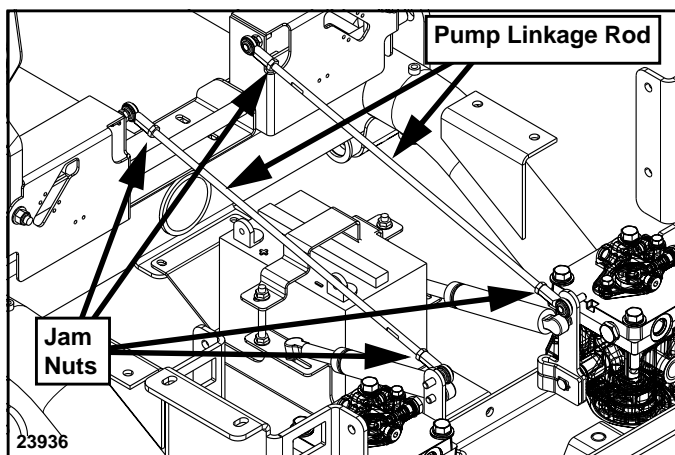
1. Raise and block mower up to support drive wheels off the floor.



WARNING

Make certain mower is secure when it is raised and placed on the jack stands. The jack stands should not allow the mower to move when the engine is running and the drive wheels are rotating. Use only certified jack stands.

2. Position the control levers in the neutral position and disengage blades.
3. Start engine and observe which way the wheels are rotating.

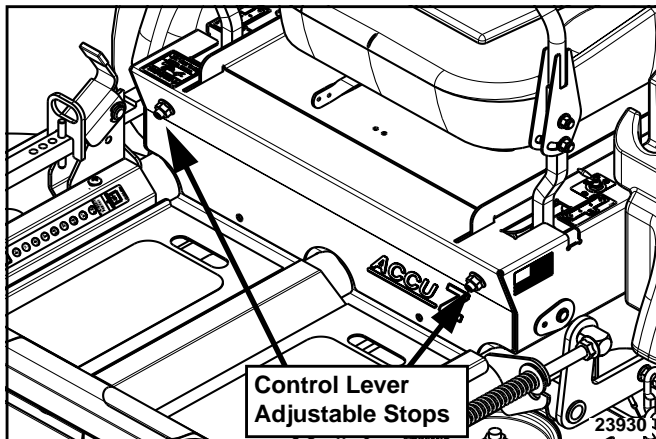


Steering Control Linkage
Figure 3-2

4. If wheel is rotating forward:
 - a. Loosen jam nuts on the pump linkage rod.
 - b. Rotate rod to lengthen the steering control linkage until the wheel comes to a stop.
 - c. Repeat for the opposite side if necessary.
 - d. When both wheels remain in neutral, tighten jam nuts to lock pump linkage rod(s) in place.
5. If wheel is rotating in reverse:
 - a. Loosen jam nuts on pump linkage rod.
 - b. Rotate rod to shorten steering control linkage until the wheel comes to a stop.
 - c. Repeat for the opposite side if necessary.
 - d. When both wheels remain in neutral, tighten jam nuts to lock the pump linkage rod(s) in place.
6. Test again by moving control levers forward and backward before returning them to neutral position. The unit is ready for operation if the tires do not rotate with the control levers in neutral.
7. Turn ignition switch off and place control levers in park. Remove support blocking and safely lower mower wheels to the floor.

Control Lever Stops

The control lever stops are designed to do two things: First, and most important, they must keep the pumps from bottoming out internally. Second, the stops may be adjusted to help drive straight when the control levers are pushed forward against the stops.



Steering Control Linkage
Figure 3-3

Adjust Lever Stops to Protect Pumps

Refer to Figure 3-3:

This adjustment should be made first and must be made with mower engine **NOT RUNNING**. Check one side at a time to make sure each control lever is against the adjustable stop before the pump bottoms out internally.

1. Gently and slowly move one of the control levers forward and feel if there is some resistance on the lever before the control lever hits the stop. If you sense the pump linkage rod is stopping forward motion of the control lever:
 - a. Loosen the jam nut on the adjustable stop.
 - b. Turn the stop (set screw) inward to stop the control lever slightly before the pump bottoms out.
 - c. When adjustment is correct, lock the adjustable stop in place by re-tightening the jam nut.
2. Do this for each side.

Adjust Lever Stops to Driving Straight

Refer to Figure 3-3:

1. Determine which drive tire is rotating too fast when both control levers are against the stops.
2. Stop the mower and loosen the lock nut on the side which is rotating too fast. Turn the stop (set screw) inward to stop the control lever sooner.
3. Tighten the lock nut on the stop and test again.
4. Repeat this procedure until unit drives straight.

NOTE: Variables such as oil temperature, pump efficiency, motor efficiency, tire pressure, etc., may effect the consistency to drive straight while pressing the control levers against the stops.

Section 3: Adjustments

Steering Dampener Adjustment

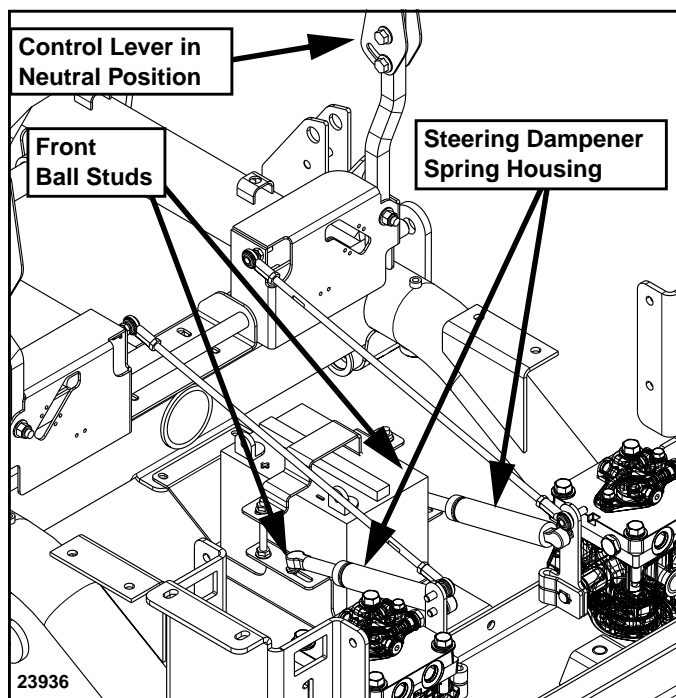
Refer to Figure 3-4:

The steering dampeners, located under the seat, are incorporated into the unit to provide some resistance when control levers are moved forward or rearward and return levers to neutral when backing up.

Make sure steering dampeners are adjusted properly by moving control levers to the reverse position and releasing them. If control levers return to neutral position, they are working correctly. Adjust control levers if they do not return to neutral. Adjusted as follows:

1. Place control levers in neutral position.
2. Adjust left dampener rod:
 - a. Loosen nut on the left front ball stud.
 - b. Pull dampener rod towards the front to engage internal spring in the spring housing.
 - c. Release dampener rod and allow the internal spring to bring the rod back to neutral position.
 - d. Retighten left front ball stud nut.
3. Repeat step 2 to adjust the right dampener rod.
4. Check steering dampeners:
 - a. Move the control levers to reverse position and release. The control levers should return to neutral position.
 - b. Repeat steps 1 through 4 if control levers do not return to neutral position.

NOTE: The dampener must not bottom out when the control lever is fully stroked in either direction.



Steering Dampener Adjustment
Figure 3-4

Park Brake Adjustment

Refer to Figure 3-5:

The brakes on your mower are factory adjusted. Through use the brakes may need readjusting to hold properly. Check and make adjustments as follows:

1. Park mower on a level hard surface, push blade engagement switch off, turn switch key off and position both control levers in park to set park brakes.
2. Raise deck fully up.

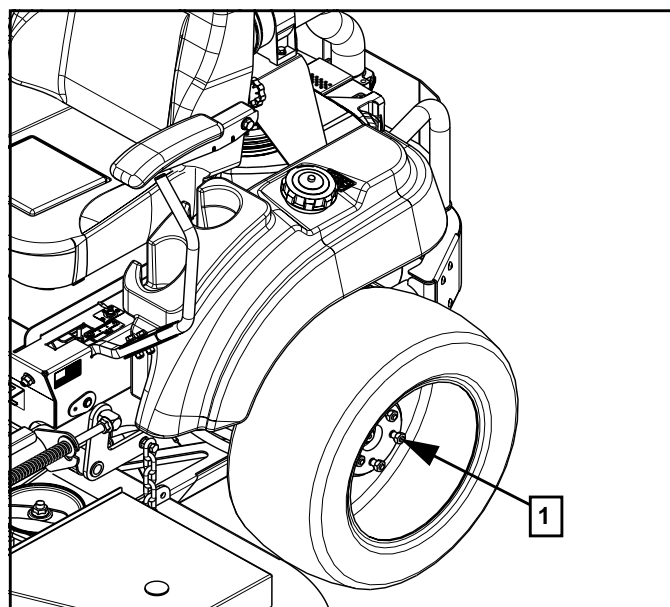


DANGER

For your safety and safety of others, a jacked mower must be supported properly with jack stands before working under and around it. Also the wheels on the ground must be chocked on both sides to prevent the mower from rolling forward or backward.

IMPORTANT: Use a hydraulic jack, floor jack, or scissor type jack to lift the mower. Do not use a handyman jack or bumper jack and don't jack against the hydraulic pumps, pulleys, engine floor plate or muffler.

3. Chock front and back side of front wheels to prevent mower from rolling forward or backward.
4. Loosen left wheel lug nuts (#1) approximately 1/2 of a turn.
5. Jack left rear drive wheel off the ground and securely support wheel up with a jack stand.
6. Remove lug nuts and wheel.
7. Turn ignition switch on. **DO NOT START ENGINE.**
8. Verify both control levers are in park.



Park Brake Adjustment
Figure 3-5

Section 3: Adjustments

Refer to Figure 3-6 & Figure 3-7:

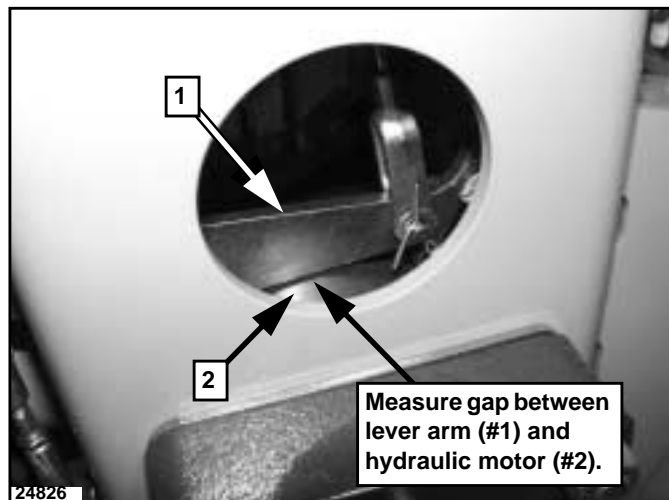
9. Check gap between actuator lever (#1) and hydraulic motor (#2). The gap should be approximately 1/16" (.06").
10. Adjust park brake if gap is greater than 1/8" (.12") or if actuator lever (#1) touches hydraulic motor (#2):
 - a. Move left control lever to neutral.
 - b. Loosen jam nut (#3) and turn adjusting rod (#4) counter clockwise two turns to increase the gap and clockwise two turns to decrease the gap.
11. Move left control lever to park and recheck gap.
12. Repeat steps 10 and 11 until correct gap is achieved. If correct gap cannot be achieved, see "Adjusting the Park Brake Lever Arm" below.
13. Once gap is correct, tighten jam nut (#3).
14. Making certain both control levers are in park, reinstall drive wheel and lug nuts. **Do not** torque lug nuts at this time.
15. Jack mower up off the jack stand and remove jack stand. Lower mower safely to the ground.
16. Tighten drive wheel lug nuts to the correct torque. See "Additional Torque Values" on page 58 for correct torque value.
17. Repeat steps 4 through 16 for the right side.
18. Turn ignition switch to off.
19. Remove wheel chocks.

Adjusting the Park Brake Lever Arm

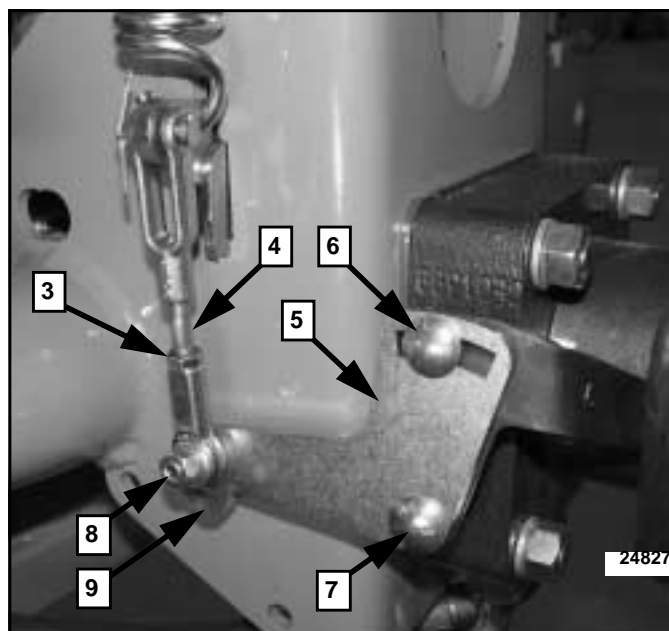
Refer to Figure 3-7:

The park brake lever arm should be adjusted only after following instructions for "Park Brake Adjustment" on page 25 and if you run out of threads on adjusting rod (#4) while making adjustments in step 12 above, then the park brake lever arm (#5) will need adjusting as follows:

1. With both control levers in park, move the control lever located on the same side as the park brake to neutral.
2. Make adjustments to park brake lever arm (#5) as follows:
 - a. Method #1:
Loosen round head square neck bolts (#6 & #7) and adjust lever arm (#5) in the square slot to provide additional take-up at adjusting rod (#4). Tighten bolts (#6 & #7) to the correct torque.
 - b. Method #2:
Use method 2 only if method 1 does not work. Remove bolt (#8) and reinstall in lower hole (#9). Tighten bolt (#8) to the correct torque.
3. Place control lever in park.
4. Continue by following instructions beginning with step 9 above.



Park Brake Gap
Figure 3-6



Park Brake Adjustment
Figure 3-7

Section 3: Adjustments

Seat Adjustment

Refer to Figure 3-8:

The seat can be adjusted forward or rearward to suit the operator. Move seat adjustment latch to the left and then move the seat forward or rearward to a suitable distance that is comfortable for operating the deck lift pedal. Return seat adjustment latch to its lock position once seat is adjusted.

Upper Control Lever Adjustments

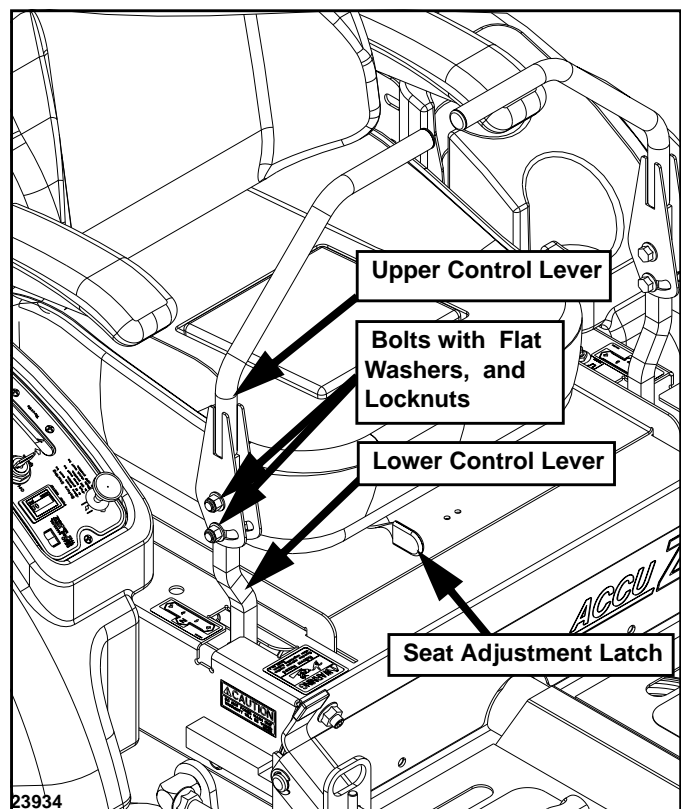
IMPORTANT: Do not make adjustment to lower control levers since they are already adjusted for neutral creep on page 23.

The control levers may be adjusted while in neutral position for height, reach and forward travel to fit the operator's steering comfort zone.

Height Adjustment

Refer to Figure 3-8:

1. Adjust control levers vertically by removing the bolts, flat washers, and locknuts that attach the upper control levers to the lower control levers.
2. Reposition upper control levers to a height that fits the operator's personal preference.
3. Reassemble bolts, flat washers, and locknuts in the same order they were removed without tightening them.



Control Lever Adjustment
Figure 3-8

Reach Adjustment

Refer to Figure 3-8 on page 27:

1. Pivot upper control levers forward or backward to fit operator's personal reach preference. If reach comfort zone can not be achieved, then try exchanging sides the levers are located:
 - a. Remove bolts, flat washers, and locknuts that attach the upper control levers to the lower control levers.
 - b. Switch right control lever with left control lever and reassemble bolts, flat washers, and locknuts in the same order they were removed without tightening them.
 - c. Pivot upper control levers forward or backward to fit operator's personal reach preference.
2. Verify that the control levers align with each other when in the neutral position and tighten locknuts to correct torque.

Forward Travel Adjustment

Refer to Figure 3-8 on page 27:

"Reach Adjustment" instructions are for adjusting the control levers to be equally aligned while in neutral. However, with this adjustment, the mower may want to steer slightly to the right or left when pushing the levers equally forward.

Make the following adjustments if you prefer to have the levers equally aligned while in forward travel position instead of while in neutral position:

1. While driving forward, make the necessary steering correction required to make the unit go straight and take careful notice of how the upper control levers are positioned. (The distance one lever is ahead of the other to make the mower travel straight.)
2. Stop the mower on a level surface, place the control levers in neutral, shut the power off and remove the switch key.
3. Either adjust the upper trailing lever forward by the distance it was trailing or adjust the upper leading lever back by the distance it was leading. Tighten the locknuts to correct torque.

Example:

If the right control lever is one inch ahead of the left control lever, stop the unit and either adjust the right upper control lever back one inch or adjust the left upper control lever forward one inch.

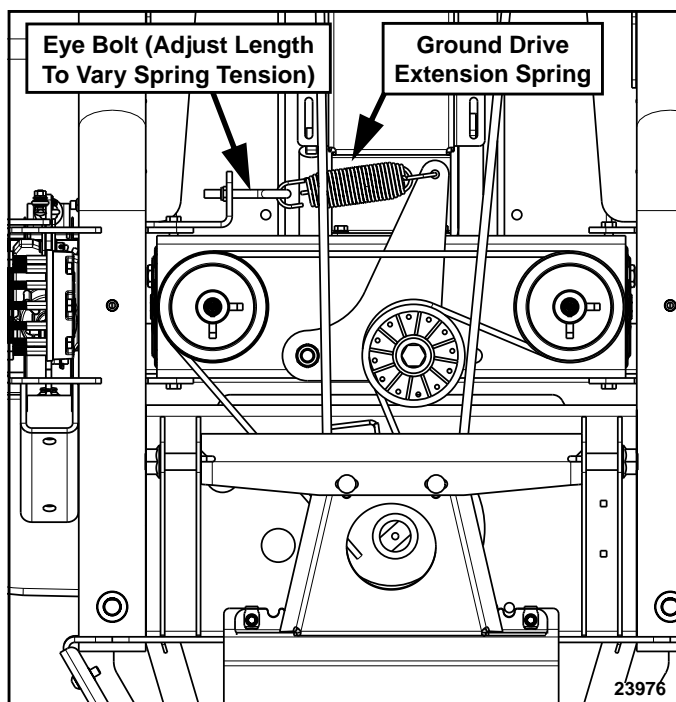
Section 3: Adjustments

Ground Drive Belt Adjustment

The ground drive belt spring tension is preset at the factory and does not need readjusting until the belt stretches and wears. As the belt wears, the spring tension may need adjusting.

Refer to Figure 3-9 & Figure 3-10:

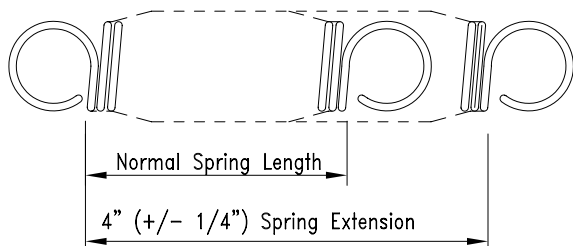
Check spring length to verify if belt is tensioned correctly. Installed spring length should be 4" \pm 1/4". Vary the spring length by adjusting the length of eye bolt.



Ground Drive Belt Adjustment
Figure 3-9

Excessive belt tension may lead to premature damage to belt and drive components and is also a safety hazard to the operator and bystanders. Not enough belt tension may also lead to premature belt damage due to excessive belt slippage.

IMPORTANT: Do not over tension spring to compensate for a badly worn belt or pulley.



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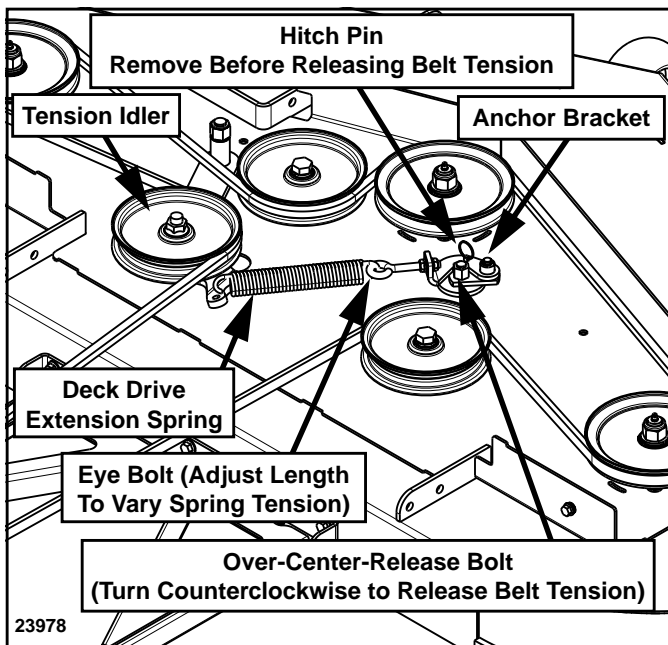
Ground Drive Belt Adjustment
Figure 3-10

Deck Drive Belt Adjustment

The spindle belt remains in constant tension by means of a spring tensioned idler. The spring tension should be adjusted so that the belt does not slip under normal operating load conditions and may require readjusting as the belt stretches and wears. The belt should be replaced if it is excessively worn or damaged.

Refer to Figure 3-11 & Figure 3-12:

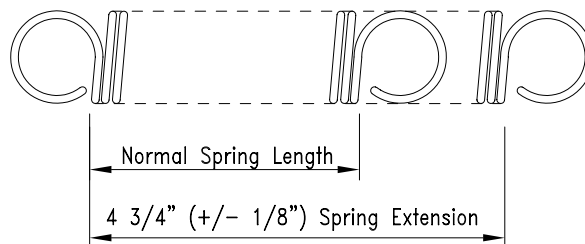
Check spring length to verify if belt is tensioned correctly. Installed spring length should be 4 3/4" \pm 1/8". Vary the spring length by adjusting the length of the eye bolt.



Deck Drive Belt Adjustment
Figure 3-11

Excessive belt tension may lead to premature damage of belt and drive components and is also a safety hazard to the operator and bystanders. Not enough belt tension may also lead to premature belt damage due to excessive belt slippage.

IMPORTANT: Do not over tension spring to compensate for a badly worn belt or pulley.



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Deck Drive Belt Adjustment
Figure 3-12

Section 3: Adjustments

Deck Leveling & Height Adjustment

The mower deck has three areas that may need to be checked and adjusted periodically. Before considering any mower deck leveling adjustments, check to make certain tire air pressure is within the specified range.



WARNING

Stop engine. Make sure blade engagement switch is in the down (OFF) position. Place both control levers in park position before leaving machine.

Deck Level Adjustments

Leveling the deck must be done in the following order:

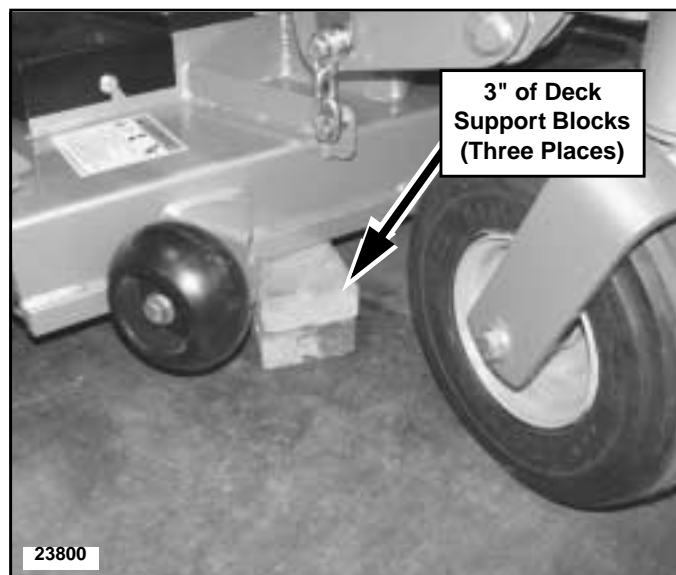
1. Check tire pressures to make certain they are properly inflated before leveling deck.

Tire Inflation Chart	
Tire	Inflation PSI
Drive Wheels	8 to 12
Caster Wheels	8 to 12

1. Park unit on a flat surface.

Refer to Figure 3-13:

2. Raise deck fully up.
3. Position the blade cutting height at 3 1/4" by placing 3" high deck support blocks under the deck edge in three locations:
 - a. Place two of the 3" support blocks under the deck front edge in-line with the far left and far right blade spindles.
 - b. Center the third 3" support block under the deck back edge.

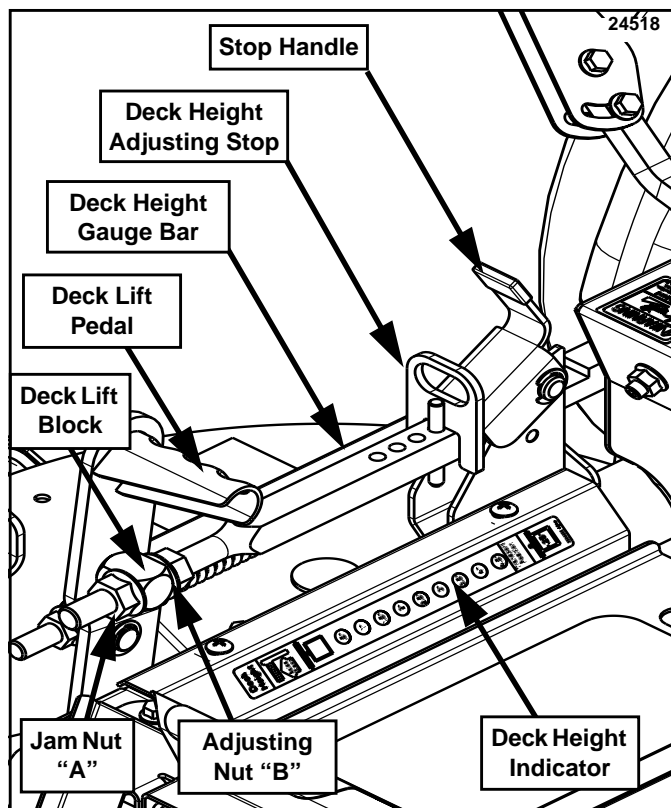


Blocking up Deck
Figure 3-13

IMPORTANT: Rear deck lift rod connection is fixed and therefore not adjustable. All adjustments to level and set the deck height must be made at the front.

Refer to Figure 3-14:

4. Loosen the jam nut "A" & adjusting nut "B". Move jam nut "A" approximately 1" away from the deck lift block.



Deck Height Gauge Bar Adjustment
Figure 3-14

Refer to Figure 3-15 & Figure 3-16:

5. Loosen deck rod left nuts "C" & "D". Typical both sides.
6. Move nut "D" approximately 1" away from the trunnion block. Typical both sides.

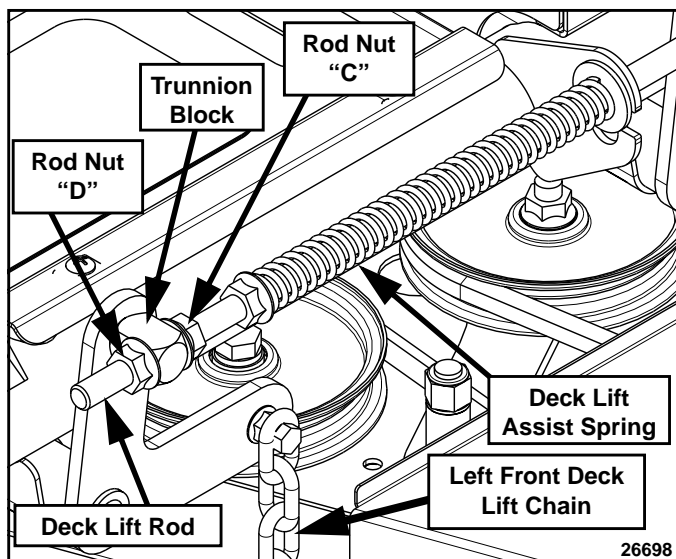
Refer to Figure 3-14 & Figure 3-16:

7. Loosen the 5/16" jam nut for the adjuster bolt and then back the adjuster bolt out to allow the adjuster to move up and down freely.
8. Set cutting height at 3 1/4" by placing the deck height adjusting stop in the hole for 3" cutting height (see deck height indicator) with the adjusting stop turned so that the flat side is against the stop handle as shown.

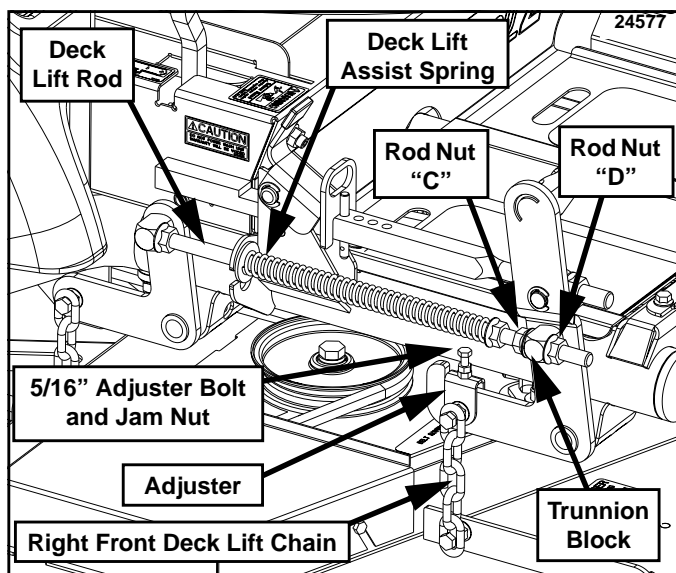
Refer to Figure 3-15:

9. Turn nut "B" to apply pressure to deck lift block until front deck lift chain on the left side (see Figure 3-15) is tight and deck is still resting on the 3" support blocks. Tighten jam nut "A" against the deck lift block.

Section 3: Adjustments



Deck Level Adjustment (Left Side)
Figure 3-15



Deck Level Adjustment (Right Side)
Figure 3-16

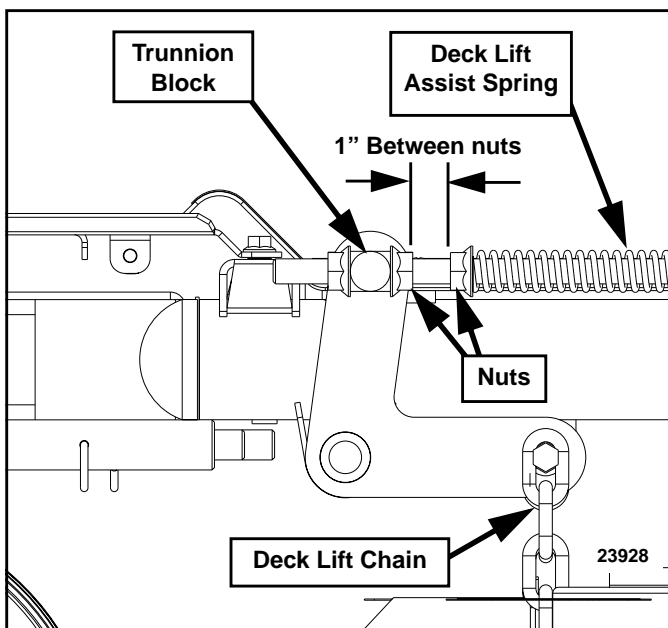
Refer to Figure 3-16:

10. Be sure that the adjuster is free to move up and down. Tighten the adjuster bolt until the front deck lift chain on the right side becomes tight. Make sure the deck stays tight against the 3" support blocks.
11. Tighten the adjuster bolt jam nut to prevent the adjuster bolt from moving.
12. Turn the four front rod nuts "C" & "D" against their respective trunnion blocks until they make contact. Tighten nuts "C" & "D" against the trunnion blocks.

Refer to Figure 3-17:

13. Compress the deck lift assist springs so that there is 1" of space between the front nut and on the spring and the rear nut on the deck lift block. Typical both sides.

14. When completed, all chains will be tight, deck will still be resting on the 3" support blocks and stop handle will be against the adjusting stop plate with the stop positioned in the 3" hole.
15. Raise deck fully up until the stop handle catches on the cross notch in the deck height gauge bar.
16. Remove all 3" support blocks.



Deck Lift Assist Spring Adjustment
Figure 3-17

Deck Cutting Height Adjustment

Refer to Figure 3-14 on page 29:

Deck height is adjustable from 1/2" to 4 1/2" in 1/4" increments. The holes in the height adjusting bar are spaced at 1/2" intervals. By turning the height adjusting stop around, 1/4" increments can be attained due to the 1/4" plate that is part of the stop.

EXAMPLES:

- When the height adjusting stop is placed in the 1/2" hole, with the 1/4" plate facing to the front of the unit, the cutting height is at 1/2". When the height adjusting stop is placed in the 1/2" hole, with the 1/4" plate on the operator's side of the hole, the cutting height is at 3/4".
- When the height adjusting stop is placed in one of the holes, with the 1/4" plate on the operator's side of the hole, the deck height will be set at one of the following: 3/4", 1 1/4", 1 3/4", 2 1/4", 2 3/4", 3 1/4", 3 3/4" or 4 1/4".
- When the height adjusting stop is placed in one of the holes, with the 1/4" plate facing to the front of the unit, the deck height will be set at one of the following: 1/2", 1", 1 1/2", 2", 2 1/2", 3", 3 1/2", 4" or 4 1/2".

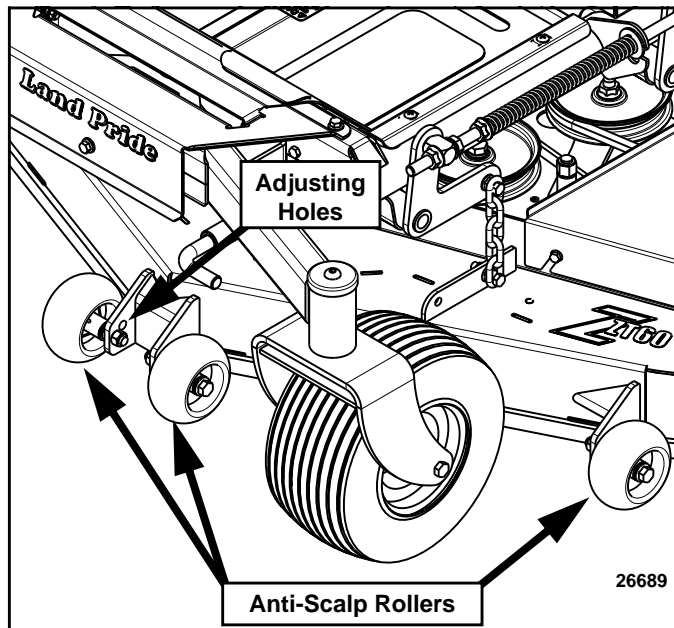
The notch located at the rear of the right height adjusting bar is used when the deck is placed in the transport mode.

Section 3: Adjustments

Anti-Scalp Rollers

Refer to Figure 3-18:

Anti-scalp rollers are standard on the Accu-Z. These anti-scalp rollers are designed to minimize scalping when mowing on rough uneven terrain.



Anti-Scalp Roller Adjustment
Figure 3-18

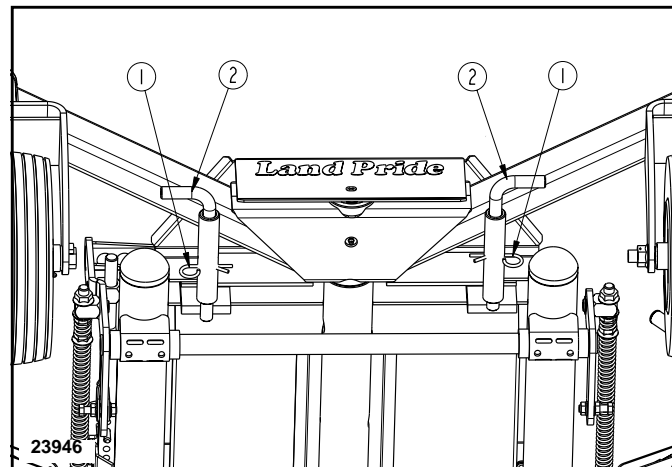
After setting the cutting height, adjust the front anti-scalp rollers so they extend below the deck but do not contact the ground. They should always be at least 1/4" to 3/4" below the deck. With the unit sitting on a flat level surface, the front wheel position can be adjusted up or down as needed from 3/4" to 1 3/4" below the blade surface. Move the front wheels up or down, in 1/2" increments, using the different axle mount holes in the roller mount bracket.

NOTE: When the anti-scalp rollers are installed, the minimum cutting height is 1 1/2" with the anti-scalp rollers set at 3/4".

Front Axle Pivot

Refer to Figure 3-19:

The front wheels can be set to pivot about the center of the mower frame to allow the front wheels to float with the contour of the ground or locked to prevent the wheels from floating.



Pivot Locking Device
Figure 3-19

Pivot set to float

1. Remove hairpin cotters (#1).
2. Pull axle pivot pins (#2) out approximately 1" until 2nd hole in pivot pins aligns with the hairpin cotter holes.
3. Replace hairpin cotters (#1).

Pivot set not to float

1. Remove hairpin cotters (#1).
2. Push axle pivot pins (#2) in approximately 1" until 1st hole in pivot pins aligns with the hairpin cotter holes.
3. Replace hairpin cotters (#1).

Section 4: Options & Accessories

Roll Over Protection System (ROPS)

Refer to Figure 4-1:

Add roll over protection to your Zero Turn Mower with an optional ROPS. Available in fixed or folding for cutting under trees.



Roll Over Protection System
Figure 4-1

Folding Soft Top Canopy

Refer to Figure 4-2:

Keep the sun off with this easily assembled, ROPS attached canopy. Made with a lightweight aluminum frame and acrylic coated polyester, you'll be more comfortable during those sunny afternoons.



Folding Soft Top Canopy
Figure 4-2

Snow Plow

Refer to Figure 4-3:

Get more use from your Zero Turn Mower by attaching a front mount snow blade. Available in 60" and 72" widths, this blade easily attaches to your Accu-Z mower for the winter months.



Snow Plow
Figure 4-3

Light Kit

Refer to Figure 4-4:

Make seeing easier when completing a job after sundown and when parking your mower in a shed that is not well lit by attaching Land Pride's light kit.



Light Kit
Figure 4-4

Section 4: Options & Accessories**Screw Jack**

Refer to Figure 4-5:

Make accessing the underside of your deck easier with a front mount screw jack. It is especially useful for cleaning the deck underside, accessing the cutting blades and making front tire repairs.

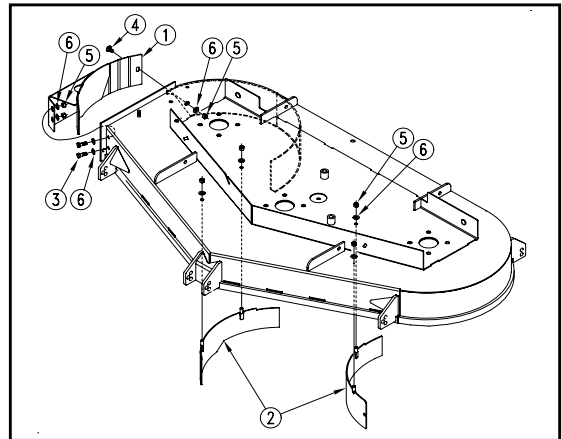


Screw Jack
Figure 4-5

Mulching Kit

Refer to Figure 4-6:

Give your lawn that fresh cut grass look without those unsightly grass clippings showing by installing mulching blades and baffles (Items 1 & 2) on your mower deck.



Mulching Baffles and Blades
Figure 4-6

Grass Catcher

Refer to Figure 4-7:

Collect your fresh cut grass with a rear mount Grass Catcher. Grass collection systems are available through Humboldt Speciality Mfg. Co. Ph. 800-488-2009.



Grass Catching System
Figure 4-7

Maintenance



WARNING

Read and observe all safety warnings in this manual and in the engine service manual.



WARNING

Except when checking or changing components, always keep protective shields on for safety as well as for cleanliness.



WARNING

Keep your machine clean and remove any deposits of trash and clippings, which can cause engine fires and hydraulic overheating as well as excessive belt wear.



WARNING

DO NOT have engine running when servicing or making adjustments to the mower. Place both control levers in park position, disengage blade engagement, shut engine off and remove ignition switch key.



DANGER

Repairs or maintenance specifically requiring engine power should be performed by trained personnel only. Control levers should be set in park position. If the control levers are to be operated, the tires should be properly supported off the floor. Enclosed areas should be properly ventilated to prevent carbon monoxide poisoning.



WARNING

Before working on or under the deck, make certain the engine cannot be accidentally started. Shut engine off and remove ignition switch key for maximum safety. Repairs or maintenance requiring engine power should be performed by trained personnel only.



DANGER

Exercise caution when working under the deck as the mower blades are extremely sharp. Wearing gloves is advisable when working around or with the blades.



WARNING

When possible, clean under mower using a stick or similar instrument making sure that no part of the body, especially arms and hands are under mower.

Regular maintenance is the best prevention for costly downtime or expensive, premature repair. The following pages contain suggested maintenance information and schedules which the operator should follow on a routine basis.

Check initially and periodically for loose bolts and pins. Torque loose bolts per the "Torque Values Chart" on page 58. Remain alert for unusual noises, they could be signaling a problem. Visually inspect the machine for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.

Clear away heavy build-up of grease, oil and dirt, especially around the engine and under the seat platform; minute dust particles are abrasive to close-tolerance engine and hydraulic assemblies.

Inspect mower daily for grass clippings, tangled wire and string. The underside of the mower deck will collect a build-up of grass clippings and dirt, especially when grass is wet or has high moisture content. This build-up will harden, restricting blade and air movement and will usually produce a poor quality of cutting. Therefore, debris should be routinely removed from under the deck.

To do this it will be necessary to raise and block the deck in the full up position and scrape the build-up from underneath.

Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult your Land Pride dealer when assistance is needed.

Torque Values



WARNING

Particular attention must be given to tightening the drive wheel lug nuts, blade spindle bolts and electric clutch bolt. Failure to correctly torque these items may result in the loss of a wheel, blade or burnt clutch which can result in serious damage and/or personal injury.

It is recommended that the lug nuts, spindle bolts and electric clutch bolt be checked after the first 2 hours of initial operation and after removal for repair or replacement. Thereafter, they should be checked every 50 hours of operation.

NOTE: Refer to "Torque Values Chart" and "Additional Torque Values" on page 58 for correct torque values.

Section 5: Maintenance & Lubrication**Maintenance Schedule**

Service at Intervals Indicated	Every 25 Hrs	Every 50 Hrs	Every 100 Hrs	Every 200 Hrs	Every 500 Hrs	Refer to Page
Clean mower, Deck & Engine Cooling System	Daily (After engine has cooled.)					
Verify Safety Start Interlock System	Daily (Before each use)					16
Inspect Unit for loose hardware and damage	Daily (Before each use)					34
Visually Inspect Tires	Daily (Before each use)					38
Check Engine Oil Level	Daily (Before each use or every 4 hours, whichever comes first)					42
Clean Air Intake Screen	Daily (Before each use or every 4 hours, whichever comes first)					43
Check Fuel Level	Daily (Before each use)					41
Blades - Sharp & Securely Fastened	Daily (Before each use)					34 & 47
Discharge Chute - Securely In Place & In Lowest Position	Daily (Before each use)					
Grease Blade Spindle Bearings	X					50
Change Engine Oil & Filter (1)		X				42
Clean Cylinder And Head Fins		X				
Check Battery Connections		X				11 & 38
Check Tire Pressure With A Gauge		X				38
Clean Engine Exterior (3)		X				
Check hydraulic Oil Level		X				39
Tighten Lug Nuts On Wheels (2)		X				34
Grease Caster Wheel Bearings			X			51
Check Ground And Deck Belt Tension (4)			X			45 & 46
Check Fuel and Hydraulic Lines (5)			X			41
Change Fuel Filter (3)			X			41
Grease Deck Lift Pivot Points (8)			X/M			50
Replace Spark Plugs(3)				X		
Replace Air Cleaner Paper Element (6)				X		43
Grease Front Axle Center Pivot (8)					X/A	51
Grease Idler Arm Pivot Pin (8)					X/A	51
Change Hydraulic oil & Filter (7) (8)					X/A	39
Check and Adjust Parking Brakes (8)					X/A	25

NOTES:

1. Initial engine oil and oil filter change is after the first 5 hours of operation. Thereafter, change engine oil and oil filter every 50 hours of operation. Change every 25 hours when operating the engine under dusty or dirty conditions, heavy load, high temperatures and hot weather periods. Refer to Engine Owner's Manual.
2. Torque lug nuts initially and after first 2 hours of operation.
3. Remove cooling shrouds and clean cooling areas. Check oil cooler fins and clean as needed. Refer to Engine Owner's Manual.
4. Inspect ground and deck belt tensions every 6 months or 100 hours and replace if worn or cracking is noticed. Otherwise, replace every 200 hours or 2 years whichever comes first.
5. Check fuel line hoses and fuel valve for any cracks or leaks.
6. Replace air cleaner filter element if damaged, every 200 hours or every season (whichever comes first). Replace more frequently when used in dusty conditions.
7. Initial hydraulic oil and filter change is between 25 and 50 hours of operation.
8. X/M = Service per hours indicated in column or monthly (whichever comes first).
X/A = Service per hours indicated in column or annually (whichever comes first).

Section 5: Maintenance & Lubrication

Maintenance Locations

Your Accu-Z riding mower is designed with innovative and state-of-the-art components that should be maintained. Knowing the location and how to maintain these components is the best prevention for costly downtime or expensive, premature repair. Become familiar with the components listed below. Most will be reviewed in this section.

Refer to Figure 5-1:

1. Pulley Guards
2. Over-Center Belt Tensioner
3. Deck Belt Tensioner Spring
4. Deck Belt
5. Deck Tension Idler
6. Anti-Scalp Wheels
7. Blade Spindle Zerk (3)
(1) Under floor panel
(2) Thorough opening in pulley guards
8. Discharge Chute

Refer to Figure 5-2:

9. Cutting Blades
10. Deck Underside

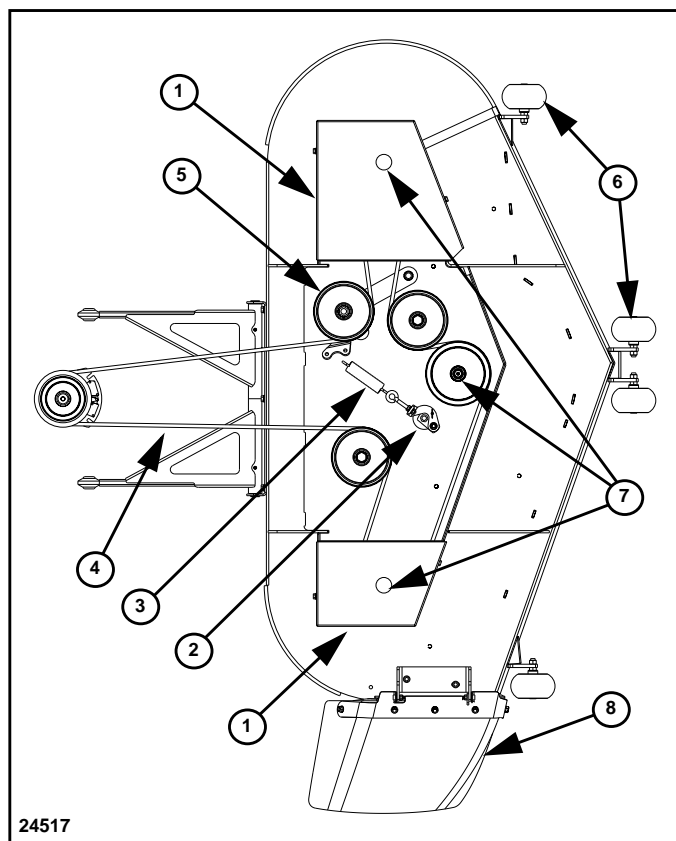
Refer to Figure 5-3:

11. Engine Oil Fill & Dipstick
(Located under air cleaner mount.)
12. Engine Oil Drain Plug
(Located under air cleaner mount.)
13. Engine Oil Filter
14. Engine Oil Cooler
15. Engine Air Cleaner
16. Fuel Filter
17. Hydraulic Oil Filter (2)
18. Seat Release Latch
19. Hydraulic Oil Expansion Tank (2)
(For level check and adding oil.)
20. Battery (located under seat)
21. Operator Presence Switch
(Located under seat.)
22. Reservoir Cover (2)
23. Hydraulic Oil Fill Plug (2)
(For initial fill & oil changes only.)
24. Caster Wheel Bearing Zerk (2)

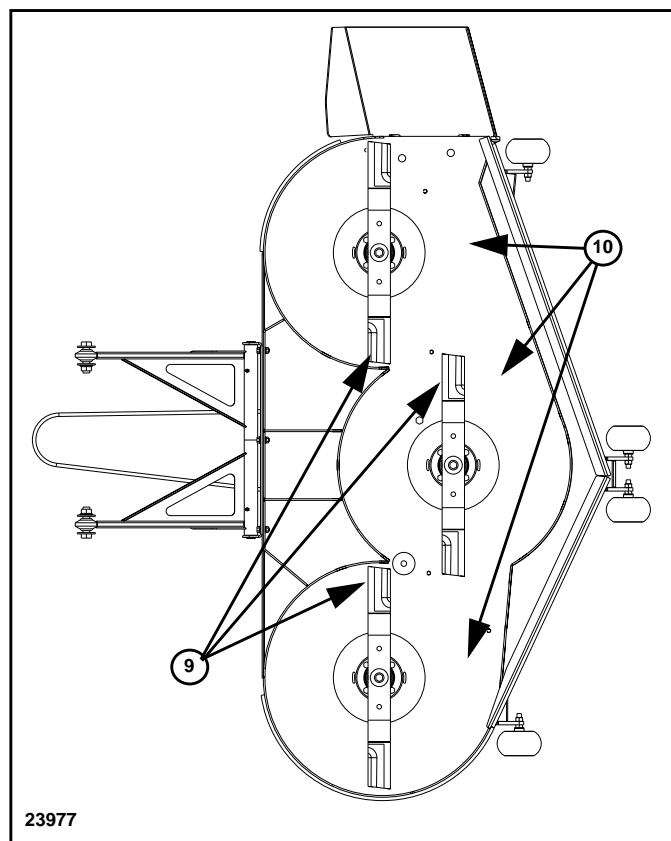
25. Pivot Grease Zerk
(Located under axle.)
26. Floor Panel
27. Floor Panel Lift Handles
28. Left/Right Fuel Tank Valve
(May be located on either side)
29. Seat Adjustment Latch
30. Control Lever Stops (2)

Refer to Figure 5-4:

31. Hydraulic Oil Drain Plug (2)
32. Electric Clutch Pulley
33. Ground Drive Belt
34. Ground Belt Tension Idler
35. Ground Belt Tension Idler Spring
36. Deck Lift Pivot Zerk (4)
37. Axle Pivot Pins (2)
38. Caster Wheels (2)
39. Drive Wheels (2)
40. Idler Arm Pivot Zerk
(Located above pivot pin)

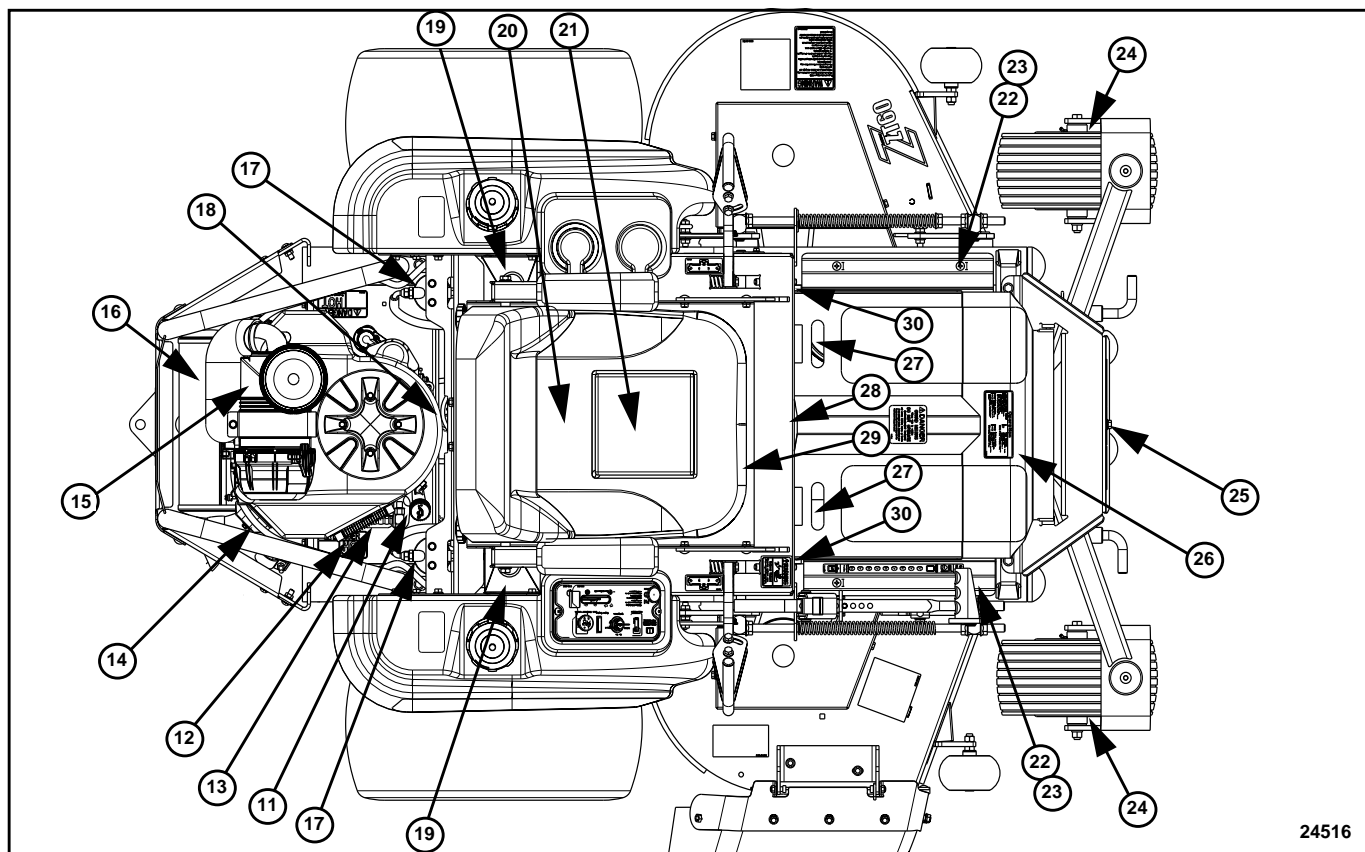


Top View of Deck
Figure 5-1

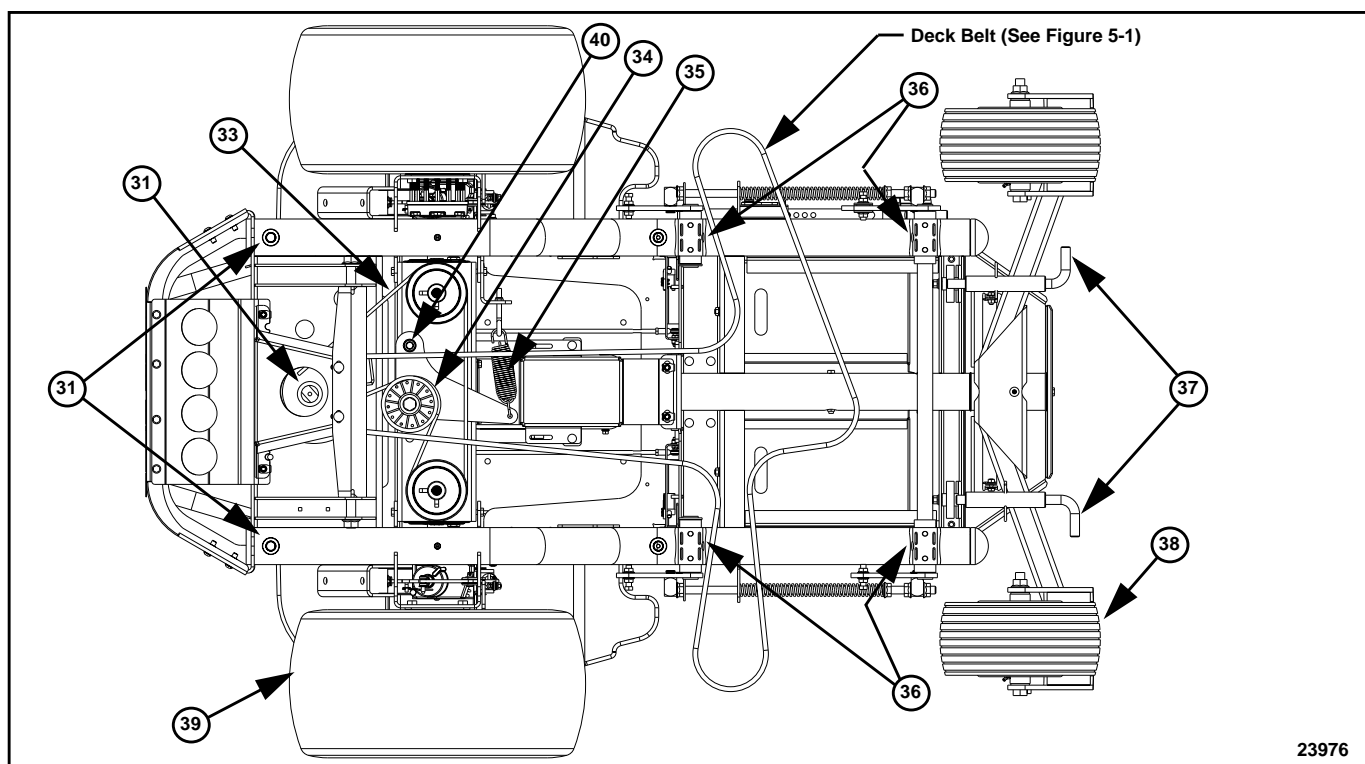


Bottom view of Deck
Figure 5-2

Section 5: Maintenance & Lubrication



Top View of Mower (Honda Engine Shown)
Figure 5-3



Bottom view of Mower (Deck Not Shown)
Figure 5-4

Section 5: Maintenance & Lubrication

Tires

Use only tires recommended by Land Pride. Solid fill tires are not to be used on the Accu-Z mower.

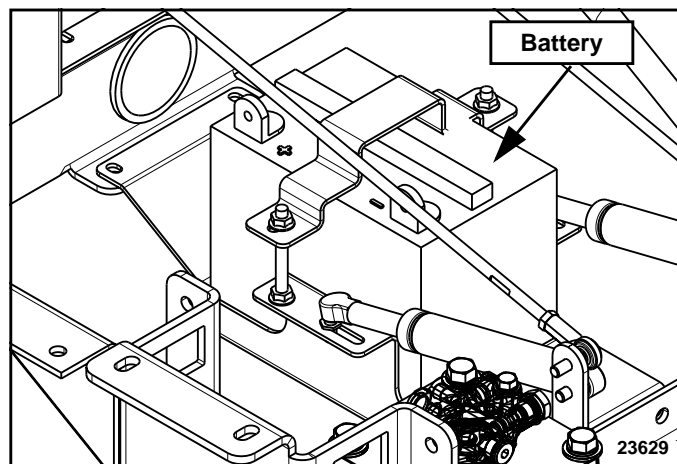
It is important for your safety and the safety of others that the tires have correct air pressure. Check air pressure in all four tires before each use. Visually inspect tires for loss of air throughout each day of operation. See Tire Inflation Chart below for correct tire pressure.

Tire Inflation Chart	
Tire	Inflation PSI
Drive Wheels	8 to 12
Caster Wheels	8 to 12

Electrical System

Refer to Figure 5-5:

The battery is located under the seat. The electrical system is a 12 volt, negative ground. Recommended battery size is a garden mower BCI group U1R with 225 or better cold cranking AMPs (CCA). A maintenance-free battery is recommended. Otherwise, follow battery manufacturer's maintenance, safety, storing and charging specifications.



Battery
Figure 5-5

! WARNING

Acid can cause serious injury to skin and eyes. Avoid skin contact with battery acid and always wear eye protection when checking the battery. Flush area with clean water and call a physician immediately. Acid will also damage clothing.

! WARNING

Do not allow an open flame near the battery when charging. Hydrogen gas forms inside the battery. This gas is both toxic and flammable and may cause an explosion if exposed to a flame.

! WARNING

Incorrect battery cable connections can damage the mower's electrical system and cause battery cables to spark. Sparks around a battery can result in a battery gas explosion and personal injury.

- Always **disconnect** negative (black) battery cable before disconnecting positive (red) cable.
- Always **reconnect** positive (red) battery cable to the positive (+) post before reconnecting negative (black) cable to the negative (-) post.

! WARNING

Keep battery terminals from touching any metal mower parts when removing or installing the battery. Do not allow metal tools to short between the battery terminals and metal mower parts. Shorts caused by battery terminals or metal tools touching metal mower components can cause sparks. Sparks can cause a battery gas explosion which will result in personal injury.

! WARNING

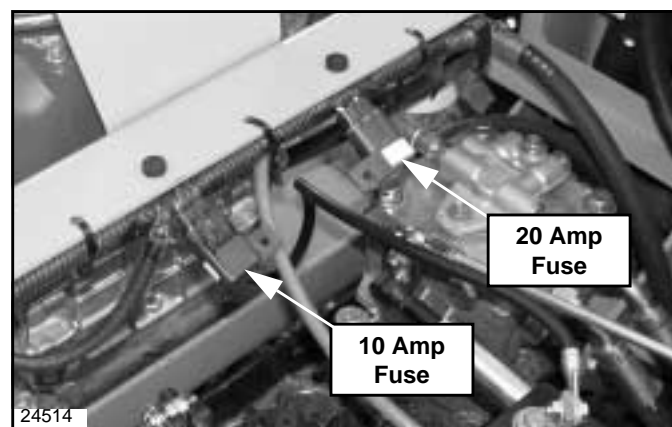
Do not overfill battery. Electrolyte may overflow and damage paint, wiring or structure. When cleaning the battery, use soap and water. Be careful not to get soap and water into the battery. Use soda mixed in water to clean corrosion off the terminals.

Common circuit problems are usually caused by electrical shorts, corroded or dirty terminals, loose connections, defective wire insulation or broken wires. Switches, solenoids and ignition components may also fail, causing a shorted or open circuit.

Refer to Figure 5-6:

The electrical system is protected by fuses located along the wire harness beneath the seat next to the engine. The fuses are:

- Main - 20 Amp, blade type
- Clutch - 10 Amp, blade type

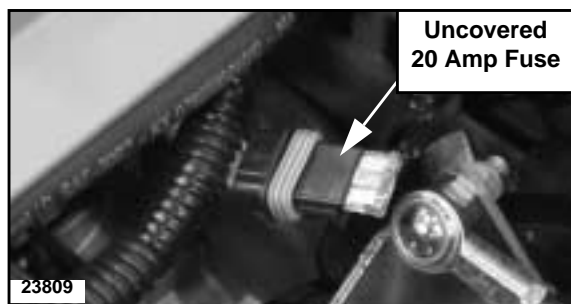


Wiring Harness Fuses
Figure 5-6

Section 5: Maintenance & Lubrication

Refer to Figure 5-7:

Remove cover over the fuse to access the fuse.



20amp Fuse W/Cover Removed
Figure 5-7

Before attempting any diagnosis of electrical system, use a test light or voltmeter to check battery voltage. If battery voltage is satisfactory, check cleanliness and tightness of terminals and ground connections. A general understanding of electrical servicing and use of basic test equipment is necessary for troubleshooting and repair.

Major overhaul or repair of starting motor or charging system should be performed by trained technicians only.

Hydrostatic Drive System



DANGER

Hydraulic fluid under pressure can penetrate skin. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for hydraulic leaks. If hydraulic fluid is injected into the skin, it must be treated by a doctor within a few hours or gangrene may result.



WARNING

Always wear adequate eye protection when servicing the hydraulic system.

IMPORTANT: Do not use a high pressure washer on or around the hydraulic pumps and motors. Water intrusion will result and void the warranty.

The Accu-Z is equipped with two completely independent hydrostatic drive systems with each system consisting of a reservoir, pump and motor.

Access the hydrostatic drive units by lifting the seat platform which is hinged at the front. To raise the seat, pull on the seat release latch at the back and tilt the seat platform up and forward.

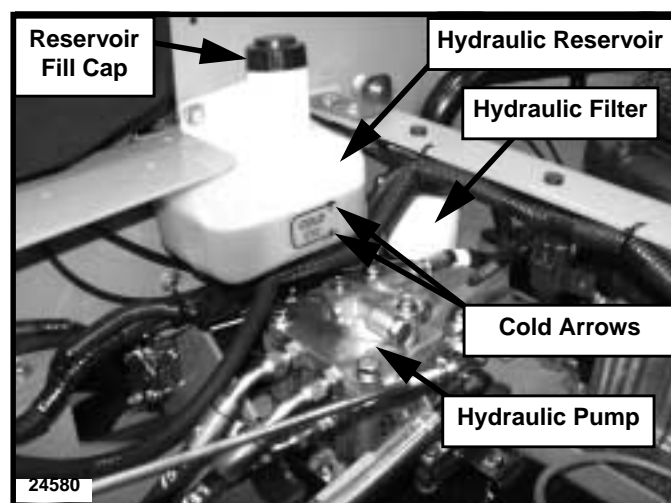
Repairs to the hydraulic pumps and motors should be performed by trained technicians only.

The hydrostatic drive pumps are equipped with bypass valves that must be opened before moving the mower with a stalled engine. Refer to "Moving Mower with Stalled Engine" on page 18 for more information.

Hydraulic Oil Level Check

Refer to Figure 5-8:

Hot oil expands, therefore, check hydraulic oil level only when it is cold. The left side is independent from the right side. Make sure you check and fill oil as needed on both sides. Oil level should be between the two cold arrows located on the reservoirs. Add hydraulic oil to the reservoir if below the bottom arrow. **Do not fill above the top arrow.** See page 52 for hydraulic oil specifications.



Hydraulic Reservoir, Pump and Filter
Figure 5-8

Hydraulic Oil and Filter Change

Refer to Figure 5-11 on page 40:

Each hydraulic pump has its own independent oil system. Therefore, each pump will require new hydraulic oil and oil filter. It is best to change oil soon after using the mower while dirt particles are still suspended in the oil. See page 52 for hydraulic oil specifications.

Initially, change hydraulic oil and oil filters after the first 25 to 50 hours of operation. Thereafter, change hydraulic oil and filters every 500 hours or every year whichever comes first. Two filters are required with each oil change. They may be purchased from your nearest Land Pride dealer. Ask for filter Part No. 810-590C.

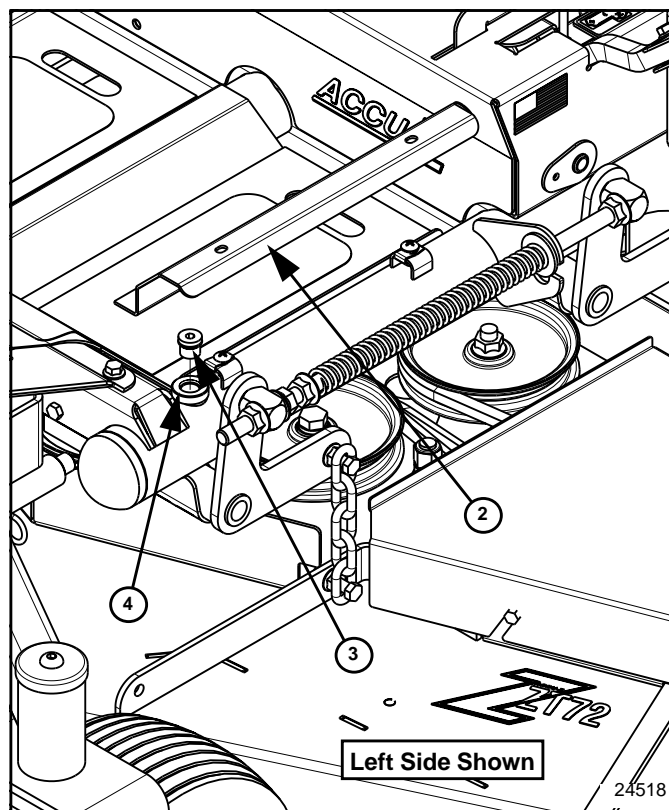
IMPORTANT: Clean debris from around the drain plug, fill plug and reservoir cap before draining any hydraulic oil.

Refer to Figure 5-9, Figure 5-10 & Figure 5-11:

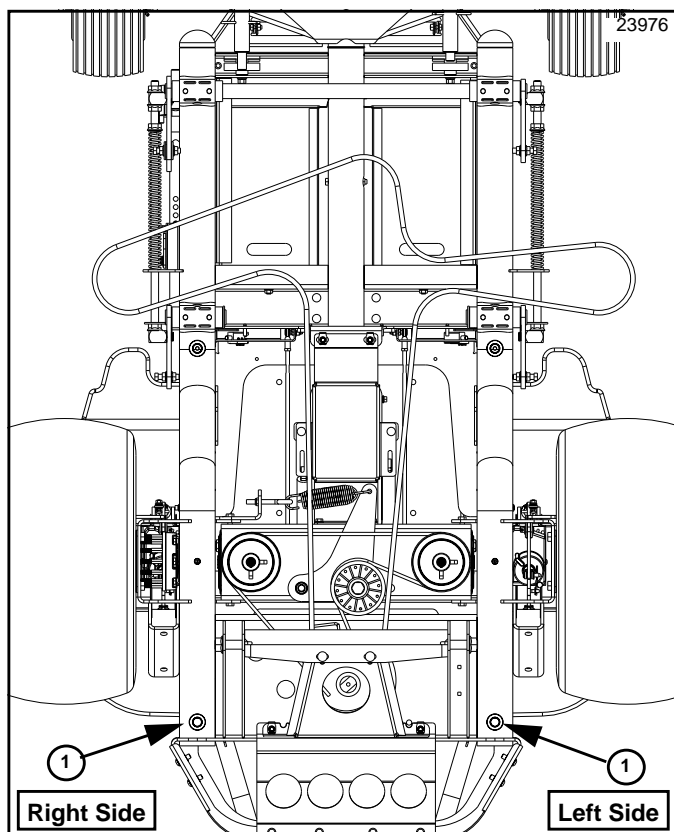
1. Place an oil pan beneath drain plug (#1) on the left side and remove drain plug.
2. Remove fill cap (#5) from the left oil expansion tank. Allow all oil to be drained from expansion tank before proceeding to step 10.
3. To facilitate drainage, remove the left reservoir cover (#2) and fill plug (#3).
4. Remove the left side oil filter (#6) and properly discard.

Section 5: Maintenance & Lubrication

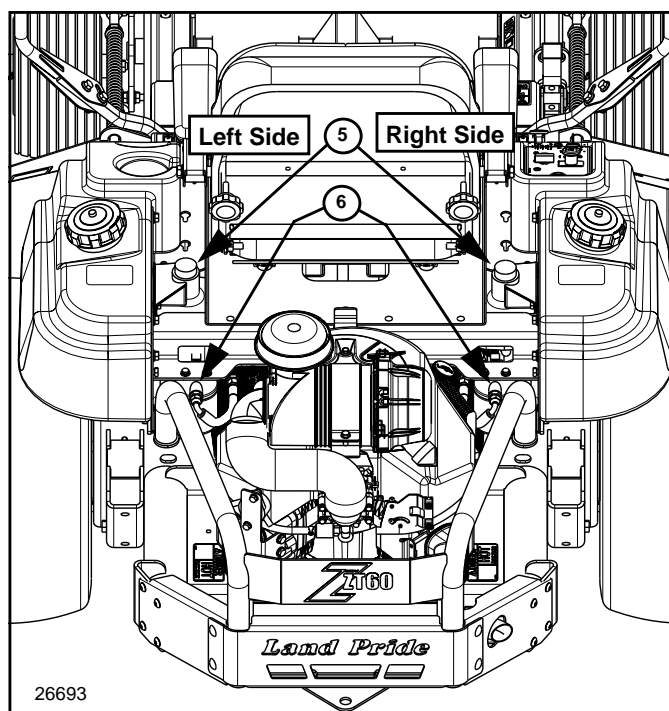
5. Once oil has slowed to a slow drip, reinstall drain plug (#1) and tighten to correct torque. See "Torque Values Chart" on page 58.
6. Install new oil filter (#6) as follows:
 - a. Clean mounting surface that the filter seats against with a clean rag.
 - b. Apply a thin coat of oil on the rubber seal surface of the oil filter.
 - c. Completely fill oil filter with hydraulic oil.
 - d. Screw new filter on until it makes contact with the surface it seats against.
 - e. Tighten filter an additional $\frac{3}{4}$ to 1 full turn more.
7. Add hydraulic oil to the left fill hole (#4) until oil reaches the top of the fill hole.
8. Reinstall left fill plug (#4) and tighten.
9. Add hydraulic oil to the expansion tank (#5) until it reaches the full mark on the expansion tank (approximately $\frac{3}{4}$ "). Reinstall cap.
10. Wipe off all excess oil. A degreaser may be needed to remove excess oil.
11. Reinstall reservoir cover (#2).
12. Repeat steps 1 thru 11 for the right side.



Hydraulic Oil Fill Plugs Location
Figure 5-10



Hydraulic Oil Drain Plugs Location (Bottom View)
Figure 5-9



Hydraulic Oil Filters and Oil Expansion Tank Location
Figure 5-11

Section 5: Maintenance & Lubrication

Fuel System



DANGER

- Replacement of fuel system parts (i.e. gas caps, hoses, fuel tanks, fuel filters, etc.) must be the same as original parts. Fire and/or explosion can occur if not followed.
- Observe safe fuel handling precautions.
- Do not smoke while handling fuel.
- Do not fill tank with engine running or while engine is hot. Allow the engine to cool before filling. Spilling fuel over the engine, muffler, or a hot object may result in a fire or explosion.
- Allow engine to cool before servicing the fuel system.
- Do not fill fuel tanks to the top if mowing on hilly terrain or in hot weather. Gas can rise up to the fuel cap vent hole and seep out.
- Clean up any gasoline spills immediately.
- Keep fuel away from open flame or spark.
- Store the mower away from open flame or spark if there is fuel in the tank.
- Use extra caution when handling gasoline and other fuels. They are flammable and vapors are explosive. A fire or explosion from gasoline can burn you and others and can damage property.
- Refuel outdoors preferably, or in well ventilated areas.
- Never attempt to start engine when there is a strong odor of gasoline fumes present. Locate and correct cause.
- Store gasoline in an approved container and keep it out of children's reach.
- Never buy more than a 30 day supply of gasoline.
- Do not fill gasoline containers inside a vehicle, on a truck, or on a trailer. Interior carpets and plastic truck bed liners insulate the container and slow loss of static charge.
- When practical, remove equipment from the truck or trailer and refuel the equipment with its wheels on the ground. If this is not possible, then refuel the equipment on the truck or trailer using a portable container and not a gasoline dispenser nozzle. If a gasoline dispenser nozzle must be used, keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete.
- Gasoline is a poison harmful or fatal if swallowed.
- Long-term exposure to vapors can cause serious injury and illness.
- Avoid prolonged breathing of vapors.
- Keep face away from nozzle and gas tank opening.
- Keep gas away from eyes and skin.

The fuel tanks are located in the mower's fenders. Total capacity for the fuel tanks is 12 U.S. gallon. When filling the fuel tanks, disengage blade engagement switch, place both control levers in park position and stop engine. Allow engine to cool before filling the tanks.

Clean dirt from around fuel tank cap, remove cap and begin filling. Do not fill fuel tanks to the top if mowing on

hilly terrain or in hot weather. Gas can rise up to the fuel cap vent hole and seep out. When finished, screw cap back on securely and wipe up any spilled gasoline. Use regular unleaded gasoline with an octane rating of 87 or higher.

IMPORTANT: Never use methanol, gasoline containing more than 10% ethanol because the fuel system could be damaged. Do not mix oil with gasoline.

Using a fuel stabilizer/conditioner in the fuel can provide benefits such as:

1. Keeps gasoline fresh during storage of 90 days or less. For longer storage, drain the fuel tanks.
2. Cleans the engine during operation.
3. Eliminates gum-like varnish build-up in the fuel system.

IMPORTANT: Do not use fuel additives containing methanol or ethanol.

Add the correct amount of gas stabilizer/conditioner to the gas. Follow the gas stabilizer/conditioner manufacturer's directions for best results.

Fuel Filter

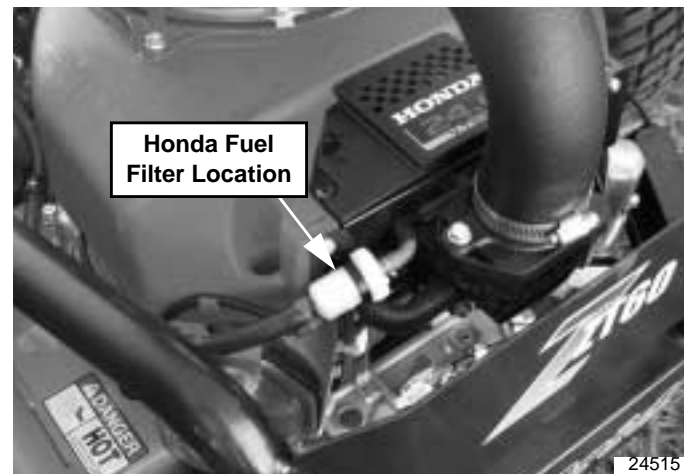
Refer to Figure 5-12:



DANGER

Close fuel shut-off valve before replacing fuel filter. Otherwise, fuel can leak out creating a fire and/or explosion hazard.

The fuel filter is installed in the fuel line between the Left/Right Fuel Tank Valve and engine fuel pump. Location of fuel filter will vary depending on which engine your mower is equipped with. See engine owner's manuals for exact location of fuel filter and instructions on removal and installation.

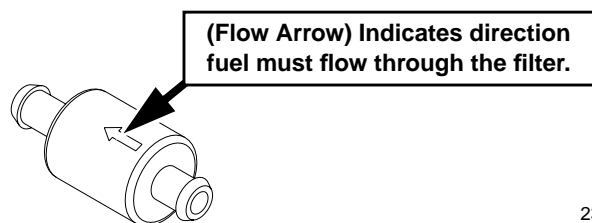


Fuel Filter (Honda Engine Shown)
Figure 5-12

Section 5: Maintenance & Lubrication

Refer to Figure 5-13:

Replace filter annually or after every 100 hours of operation, whichever occurs first. Be sure to install the fuel filter with Flow Arrow pointing towards the engine side of the fuel line. Always check fuel line hoses for any cracks or leaks. Replace as needed.

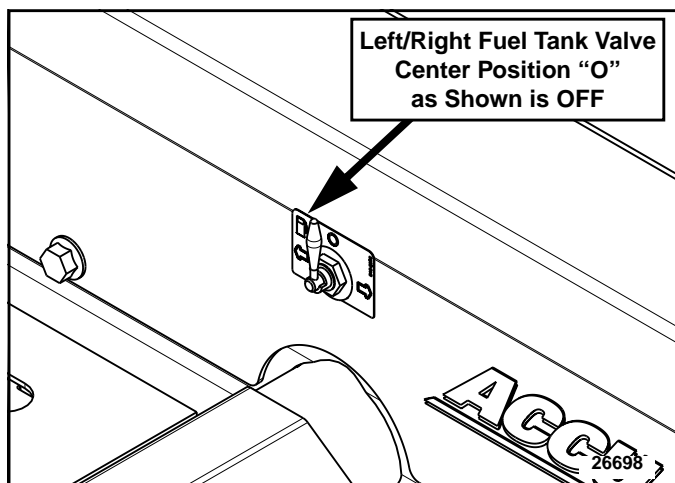


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Fuel Filter
Figure 5-13

Draining The Fuel Tank

1. Park unit on a flat surface. Make sure blade engagement switch is **in the down (OFF) position**. Place both control levers in park. Stop engine and remove ignition key.
2. Disconnect negative battery cable.



Fuel Shut-Off Valve (Honda Engine Location Shown)
Figure 5-14

3. Trace fuel line from the tank to the Left/Right Fuel Tank Valve under the seat (Refer to Figure 5-14). Remove fuel line hose clamp at the valve and remove fuel line.
4. Place end of fuel line into a gas can or a drain pan to drain fuel tank.
5. When fuel tank is drained, reattach fuel line to the left/right fuel tank valve with previously removed hose clamp.

General Engine Maintenance

Detailed instructions and recommendations for break-in and regular maintenance are specified in the engine operator's manual. Please refer to this manual for engine servicing, lubricating oil levels with quality and viscosity recommendations, bolt torques, etc. The engine warranty is backed by the engine manufacturer. Special attention should be paid to applicable data which is not duplicated here.

Engine Oil and Oil Filter

Refer to Figure 5-16 on page 43:

See "ZT60 & ZT72 Accu-Z® (Engine Specifications)" on page 52 for oil type and engine capacity.

Check engine oil daily and after every 4 hours of operation. Crankcase dipstick and engine oil fill tube are located at the rear of the machine. Mower must be sitting level when checking oil. Refer to engine manual and maintenance schedule for oil recommendation and capacities.

Change engine oil and oil filter after the first 5 hours of operation and per engine manufacturer's recommendations thereafter. It is recommended oil be changed more frequently if the mower is being operated in extremely dirty conditions.

The oil fill cap/dipstick, oil drain and oil filter are located on the right hand side.

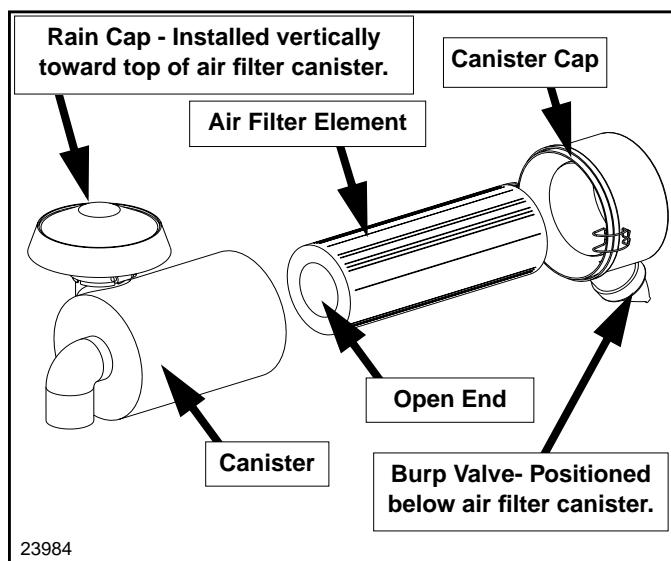
Drain oil by unscrewing the oil drain plug as needed to allow oil to flow freely. Do not remove drain plug. Drain plug will offer resistance once it is unscrewed as far as it should be.

Oil Check

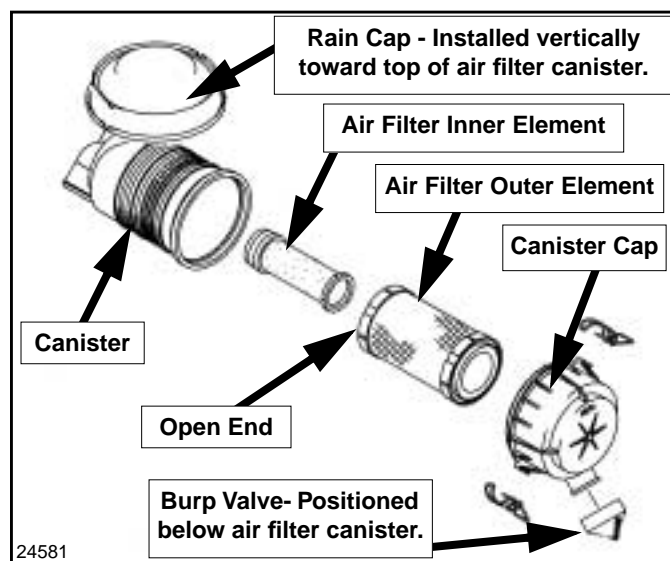
IMPORTANT: Make certain engine is level and you are inserting the dipstick correctly when checking oil. An oil overfill can cause engine problems.

1. Park on a level surface, turn ignition switch off and allow time for the oil to cool and drain into the sump.
2. Clean area around oil fill cap/dipstick of dirt and debris before removing it. Unscrew oil fill cap and wipe dipstick clean.
3. Insert dipstick fully in **without screwing it in** and removing again to check oil level.
4. If oil level on the dipstick is near or below the lower limit mark, then add recommended oil until it reaches the full mark. **Do not overfill.**
5. Reinstall oil fill cap/dipstick by screwing it in firmly.

Section 5: Maintenance & Lubrication



Air Filter For Honda Engines
Figure 5-15



Air Filter For Kawasaki & Kohler Engines
Figure 5-15

Engine Air Filter

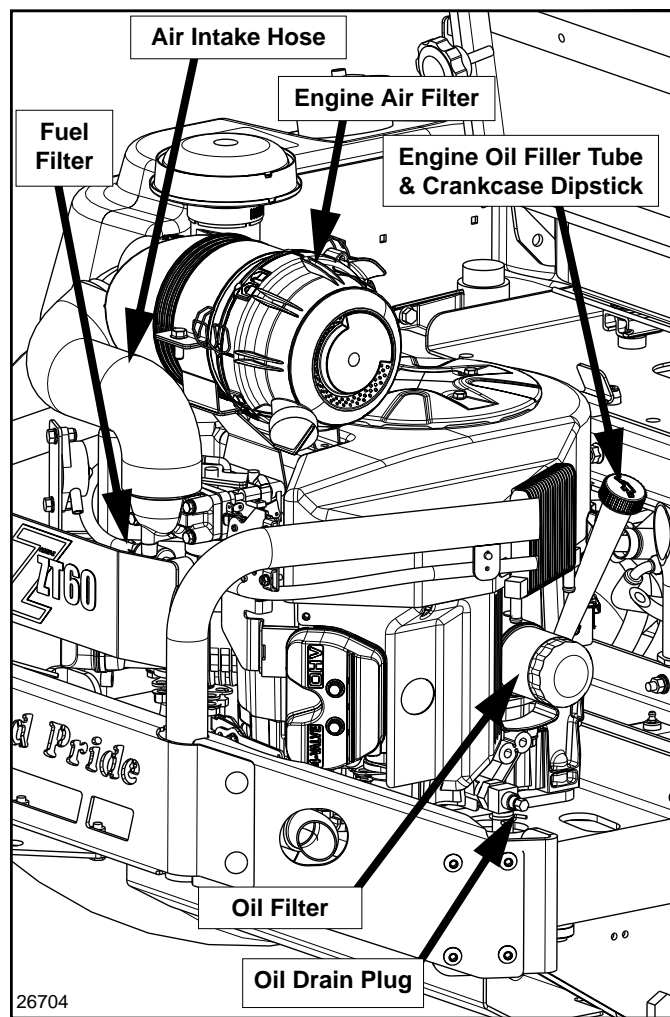
Refer to Figure 5-15 & Figure 5-16:

Perform engine air filter maintenance per Maintenance Schedule on page 35.

NOTE: Do not operate engine with a damaged air filter or without an air filter element. Dirt will enter the engine causing a dust induced engine damage.

NOTE: Do not block air intake to the canister such as setting an object in front of the air intake opening.

1. Replace filter element every 200 hours or every year, (whichever comes first). **Service more frequently when used in dusty conditions.**
2. Release retaining clips and remove filter element. Clean canister with a damp cloth.
3. Before installing a new filter element, inspect it by placing a bright light inside and rotate the element slowly, looking for any holes or tears in the paper. Also check gaskets for cuts or tears. Do not attempt to use a damaged element which will allow abrasive particles to enter the engine.
4. **Kawasaki & Kohler:** Install new Inner element into the new outer element as shown in Figure 5-15.
5. **All Engines:** Install new outer filter element by inserting the open end in the canister first.
6. Reinstall canister cap with burp valve positioned below the canister. Make sure it seals all around the canister before latching retaining clips.
7. Check all fittings and clamps periodically for tightness. Inspect hoses for holes or cracks.
8. Periodically check engine intake hose for signs of ingested dust. Locate and repair source of ingested dirt.
9. Never operate a machine without an air filter installed.



Engine Oil Filter, Drain & Filler Tube
(Kawasaki Engine Shown)
Figure 5-16

Section 5: Maintenance & Lubrication

Engine Air Filter Handling

Refer to Figure 5-15 and Figure 5-16:

A specially designed dry filter is standard equipment on the mower and supplies clean combustion air to the engine.

Prevent costly and non-warrantable premature engine damage by maintaining the air filter properly. Many engine problems are due to improper handling of the air filter. Dust and dirt that gets past the air filter will damage engine cylinder, piston and bearings in a few hours.

Prevent costly and non-warrantable premature engine damage by avoiding the following common mishandling:

- Over servicing
- Improper installation
- Damaged air filtering system
- Incorrect air filter element

Over Servicing

Over servicing occurs when an air filter element is inspected and/or replaced too often. Dust and dirt can fall off the filter element onto the canister where it can be sucked into the intake system. Only a few grams of dirt getting into an engine during each filter inspection can prematurely produce dust induced engine damage. A partially dirty air filter element is not harmful to the engine.

The air filter element should be changed before it becomes too dirty and restricts air flow to the engine hindering its performance. Replace the air filter element immediately should this happen. Engines that do not get proper amounts of air will draw in excessive amounts of gas causing premature engine damage.

The frequency of the air filter needing changing is largely determined by operating conditions. Dusty conditions will require more frequent servicing.

A dirty filter element should always be replaced with a new element. Improper cleaning procedures can get dust on the inside of the filter causing dirt induced and engine damage. **The air filter warranty expires upon cleaning or servicing a used filter in any manner. Land Pride does not warranty a dust induced engine damage if a used air filter element has been cleaned or serviced in any manner.**

Improper Installation

Improper installation occurs when dust leaks past the seals. The filter element must be aligned within the canister and properly seated on both ends to prevent dirt from entering the engine.

Damaged Air Filtering System

A damaged air filtering system occurs from mishandling of the filter element and operating the mower in areas that could damage the canister.

Banging and/or bumping the filter element against a solid object such as a tire or blowing the element with air can damage the seals and/or force dust and dirt particles through the filter media creating a hole for dirt to pass through to the engine.

Driving the mower carelessly over rough terrain, jutting sticks, heavy brush and severe rocks can damage the air cleaner canister. Periodically inspect the outside of the air cleaner canister for external damage and replace if necessary.

Incorrect Air Filter Element

The air filter must remain intact to block passage of dirt and foreign particles. It must be of sufficient size and construction to withstand stresses, caused by rapid cycling of air volume demanded by the engine, without cracking or tearing under fatigue and pressure. Its filter elements must have the correct media composition, filter area, micron size and dimensions to properly filter the air of dirt while at the same time passing sufficient air to the engine.

Land Pride and the engine manufacturers have carefully selected a reliable filter designed to fit these needs. Always use genuine Land Pride filters. **Failure to use original equipment replacement parts is an alteration and will not be considered for warranty in the event of a dust induced engine damage.** See "ZT60 & ZT72 Accu-Z® (Engine Specifications)" on page 52 for Land Pride air filter replacement numbers.

Section 5: Maintenance & Lubrication

Belt Replacement

Refer to Figure 5-17 and Figure 5-18:

Replace belts which show signs of severe cuts, tears, excessive weather checking and cracking or burns caused by slipping. Slight raveling of belt covering does not indicate belt damage. Trim ravelings with a sharp knife.

Inspect belt pulley grooves and flanges for wear. A new belt, or one in good condition, should never run against the bottom of the groove. Replace pulley when this is the case, otherwise belt will lose power and slip excessively.

Never pry a belt onto a pulley as this will cut or damage the fibers of the belt covering.

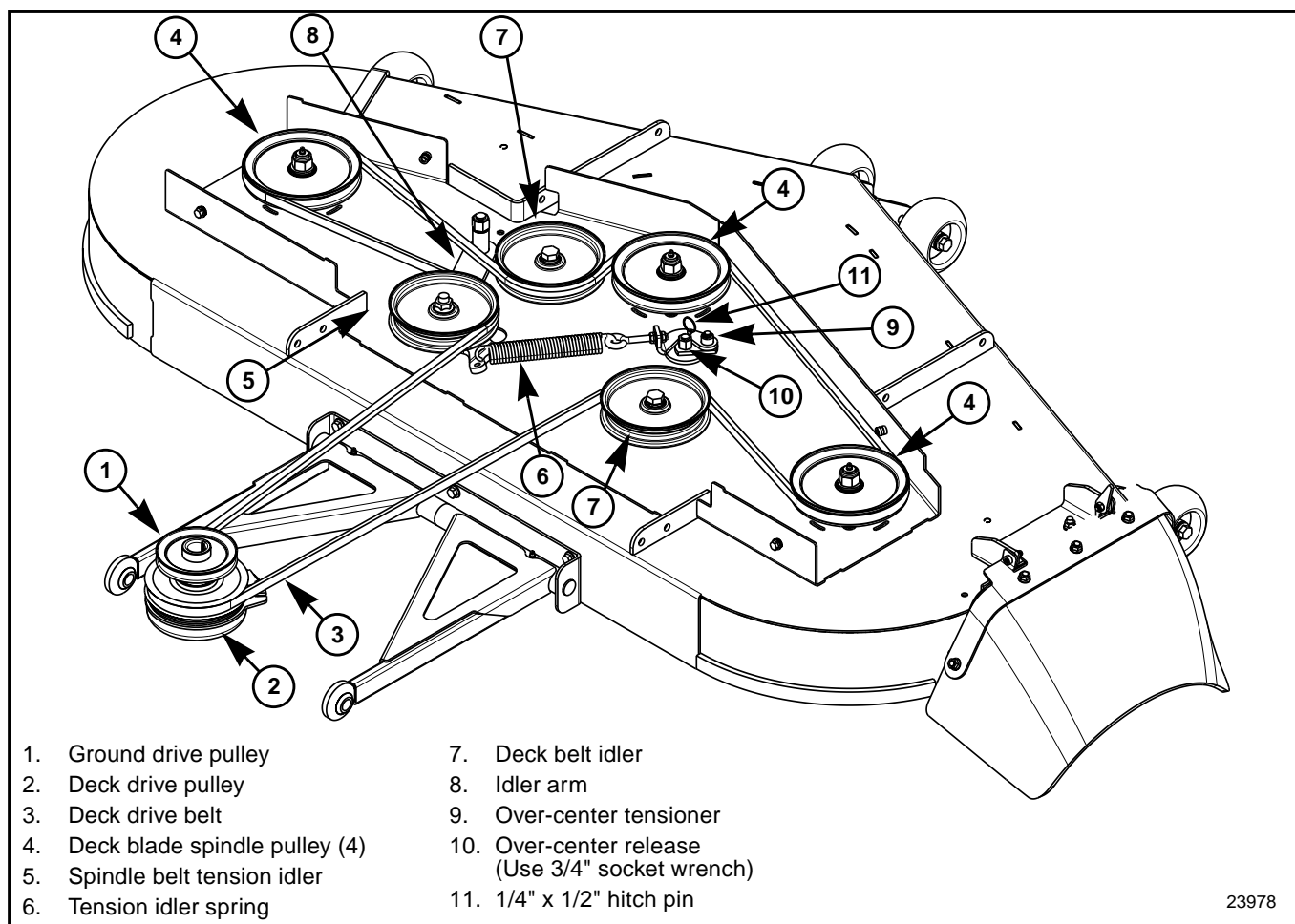
Keep oil and grease away from belts, and never use belt dressings. Any of these will destroy the belt composition in a very short time.

Deck Belt Replacement Instructions

Refer to Figure 5-17:

1. Park mower on a flat surface. Stop engine and remove ignition key. Make sure blade engagement switch is **in the down (OFF) position** and spread both control levers fully apart.

2. Disconnect negative battery cable.
3. Place deck height in the lowest position.
4. Remove deck belt covers and raise floor panel.
5. Pull hitch pin (#11).
6. Release deck belt tension by putting a 3/4" socket wrench on the over-center-release bolt (#10) and turning counterclockwise. This will relieve the tension on the deck belt idler spring.
7. Pull tension idler (#5) to the left of the machine to provide maximum belt clearance.
8. Remove existing deck belt (#3).
9. Route new deck belt (#3) as shown in Figure 5-17.
10. Re-tension deck belt idler (#5) by turning the over-center-release bolt (#10) clockwise. Check belt tension per the "**Deck Drive Belt Adjustment**" on page 28.
11. Re-install hitch pin (#11)
12. Re-install deck belt covers and lower panel.
13. Re-attach the negative battery cable.



**Deck Belt Drive Layout
Figure 5-17**

Section 5: Maintenance & Lubrication

Ground Belt Replacement Instructions

Refer to Figure 5-18:

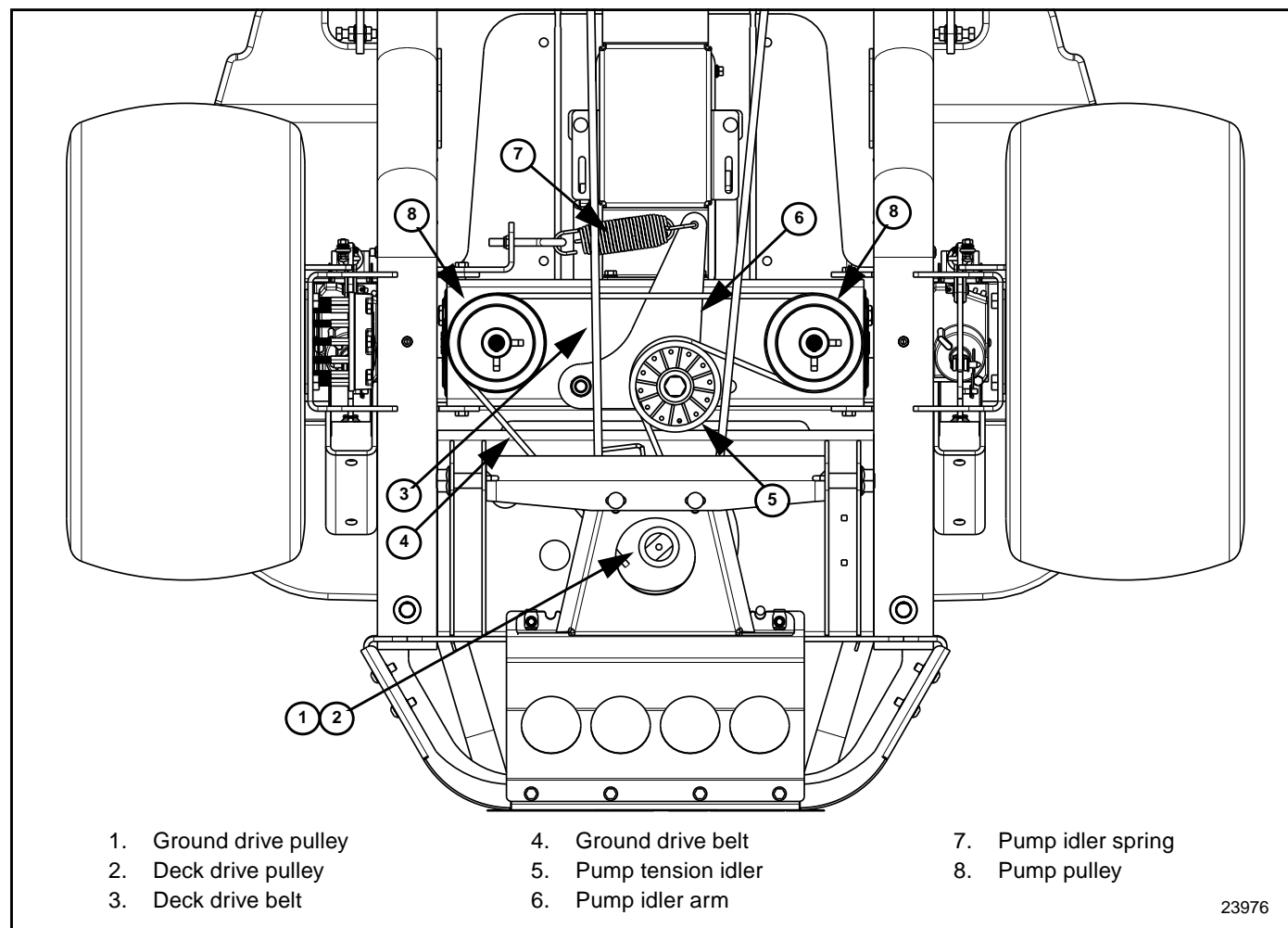
1. Park unit on a flat surface. Stop engine and remove ignition key. Make sure blade engagement switch is **in the down (OFF) position**. Spread both control levers fully apart.

WARNING

Make sure engine and engine muffler is completely cooled before working on and around the drive belt. Severe burns to the body could result if engine and muffler have not cooled.

2. Disconnect negative battery cable.
3. Place deck height in the lowest position.
4. Remove deck drive belt (#3 in Figure 5-17) from the deck drive pulley (#2) as outlined in “**Deck Belt Replacement Instructions**” on Page 45. This belt does not need to be removed from any of the other deck pulleys.

5. Release tension on ground drive belt (#4) by pulling on idler arm (#6) and carefully removing the belt from the pump tension idler (#5). **Use caution when releasing idler arm (#6) as spring (#5) is in tension and will snap it back into position.**
6. Slide the belt off of the two pump pulleys (#8) and remove from mower.
7. Install new belt by sliding it over the two pump pulleys (#8) and onto the ground drive pulley (#2).
8. Pull on pump idler arm (#6) and slide belt onto idler pulley (#5). **Make certain to keep fingers from getting between the belt and the pulley when pulley is released and tension is re-established.**
9. Re-install deck drive belt on the deck drive pulley and make sure it is routed properly on all of the deck pulleys.
10. Re-tension the deck belt idler per the “Deck Belt Replacement Instructions” on page 45.
11. Re-attach the negative battery cable.



Drive Belt Viewed from the Bottom
Figure 5-18

Section 5: Maintenance & Lubrication

Mower Blade Maintenance

Blade Inspection

Check mower blades daily, they are the key to power efficiency and well groomed turf. Keep them sharp, a dull blade will tear rather than cut grass, leaving a brown ragged top on the grass within a few hours. A dull blade also requires more power from the engine.

Replace any blade which is bent, cracked or broken.



WARNING

DO NOT try to straighten a blade that is bent. Never weld a broken or cracked blade. ALWAYS replace with a new Land Pride blade to assure safety.



DANGER

Never work with blades while engine is running or blade is engaged. Always place blade engagement switch in the down (Off) position, place both control levers in park position and turn engine off. Block up mower when you must work under it. Wear gloves when handling blades. Always check for blade damage if mower strikes rock, branch or other foreign object during mowing!

Blade Removal and Installation

IMPORTANT: Blade mounting bolts have right hand threads. Turn blade bolts counterclockwise to loosen and clockwise to tighten.

1. Remove blades by grasping the blade end with a rag or thick padded glove while loosening the blade mounting bolt.
2. With a 11/16" wrench, remove the 1/2" center blade bolt and Washer from the bottom of the blade.

IMPORTANT: Replace blades with Land Pride blades only.

IMPORTANT: Always install blades with cutting edge facing direction of blade spindle rotation and with wing tips pointing up towards bottom of deck.

3. Reinstall blade, blade washer and bolt. Care should be taken when installing the blade bolt to not get it cross threaded.
4. Tighten blade bolt to the correct torque. See "Additional Torque Values" on page 58 for correct torque values.

Blade Sharpening

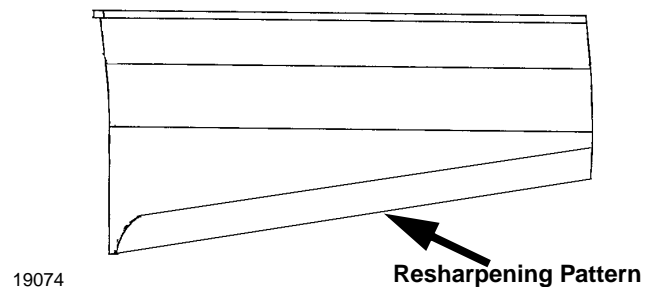


CAUTION

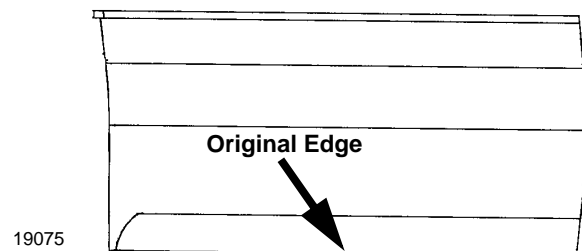
ALWAYS wear eye protection and gloves when sharpening a blade.

NOTE: Care should be taken in order not to remove any more material than necessary to sharpen blade.

1. If the blade cutting edge is dull or nicked, it should be replaced or sharpened.
2. Clean blade, blade washer and mounting surface of all debris before replacing or sharpening.
3. Sharpen blades on a grinder following pattern as shown in Figure 5-19. Grind cutting edge at the same bevel (27 1/2 degrees) as the original. Sharpen only the top of the cutting edge to maintain sharpness. Touch-up sharpening can be done with a file.

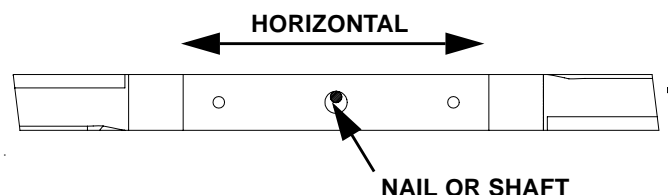


Do not sharpen to original pattern (below). It is easier to get a straight cutting edge following the re sharpening pattern shown above.



**Blade Resharpener
Figure 5-19**

4. Balance of a blade is generally maintained by removing an equal amount of material from each end of the blade when sharpening. Check blade balance by positioning the blade horizontally on a nail or shaft through the center hole. See Figure 5-20. If either end of the blade rotates downward, grind (remove) metal on that end until the blade will balance. The blade is properly balanced when neither end drops. If blade is out of balance, true it up before reinstalling.



**Blade Balancing
Figure 5-20**

Section 5: Maintenance & Lubrication

Refer to Figure 4-21 and Figure 5-22:

Lay the blade on a flat surface and check for distortion. Replace any distorted blade.

Do not re-use spindle bolts which have stripped, worn or undercut threads. Refer to “**Torque Values Chart**” on page 58 when replacing hardware for proper torque.



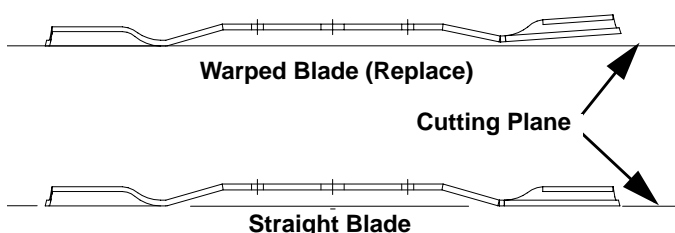
WARNING

When mounting blades, rotate them after installation to ensure blade tips do not touch each other or sides of the mower.



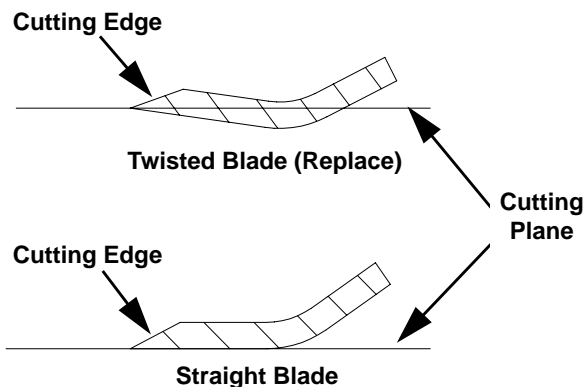
WARNING

Failure to correctly torque the bolt may result in the loss of the blade which can cause serious injury.



24579

Comparison of Warped and Straight Blades
Figure 4-21



24579

End View of Blades, Twisted & Straight Blades
Figure 5-22

Storage

Take the following steps when storing the mower at the end of the season and when the unit will not be used for long periods to ensure readiness for the next mowing season.

IMPORTANT: Do not use a high pressure washer on or around the hydraulic pumps and motors. Water intrusion will result and void the pump and motor warranty.

1. Remove all grass, dirt, trash and grease that may have accumulated on the mower and moving parts.
2. Scrape off compacted dirt, trash and grass clippings from the deck underside. A coating of oil may also be applied to the deck underside to minimize oxidation.
3. Clean and touch up all scrapes with Land Pride spray paint.
4. Check blades and blade bolts for wear and replace if necessary.
5. Service air cleaner. See “Engine Air Filter” on page 43.
6. Check thoroughly for any worn or damaged parts that need replacing and order them from your nearest Land Pride Dealer.
7. Thoroughly lubricate machine, according to lubrication instructions.
8. Block mower up so weight is off tires.

NOTE: Do not deflate tires.

9. Protect battery from freezing temperatures. Disconnect the negative ground wire from the battery to reduce the chances of a slow electrical drain. Occasionally recharging battery during storage will extend battery life.
10. Prepare engine for storage as described below.
11. Store mower in a clean, dry place.

Preparation of Engine for Storage

When engine is to be unused for long periods, proceed as follows:

1. Run engine for a minimum of 15 minutes.
2. Drain oil from crankcase while engine is still warm.
3. Refill with fresh oil of proper viscosity.
4. Drain fuel tank and run engine until it stops from lack of fuel. Gasoline evaporates if left in carburetor for long periods, forming gum and varnish deposits in carburetor. These deposits will cause engine flooding and loss of power.
5. Remove and replace fuel filter if not done in previous 100 hours.

Section 5: Maintenance & Lubrication

6. Remove spark plugs and pour a tablespoon of engine oil into each spark plug hole. Install plugs, but do not reconnect plug leads.
7. Crank engine with starter at least a dozen revolutions to distribute oil over cylinder walls and valve mechanism.
8. Clean dirt and chaff from cylinder fins, blower housing and muffler.
9. Clean exterior surface of engine. Spread a light film of oil over any exposed metal surfaces of engine that are subject to corrosion.
10. Check oil filler cap and fuel tank cap to make certain they are securely in place.

New Season Preparation

The following service is required before starting the mower after storing it for a season:

IMPORTANT: Do not use a high pressure washer on or around the hydraulic pumps and motors. Water intrusion will result and void the pump and motor warranty.

1. Clean mower, removing trash and dirt accumulation.
2. Check engine oil level.
3. Tighten any bolts that have loosened and make sure all hair pins, cotter pins and clevis pins are in place.
4. Install all safety shields and review safety precautions listed in this manual.
5. Check and inflate tires to 8-12 psi.
6. Fill fuel tank with fresh gasoline.
7. Reconnect spark plug leads to spark plug.
8. Run machine at half speed for 5 minutes, checking operation of the control levers. Stop engine and check for oil leaks, loose fittings and so forth.

Section 5: Maintenance & Lubrication

Lubrication Points

Lubrication
Legend



Multi-purpose
spray lube



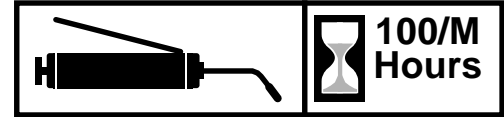
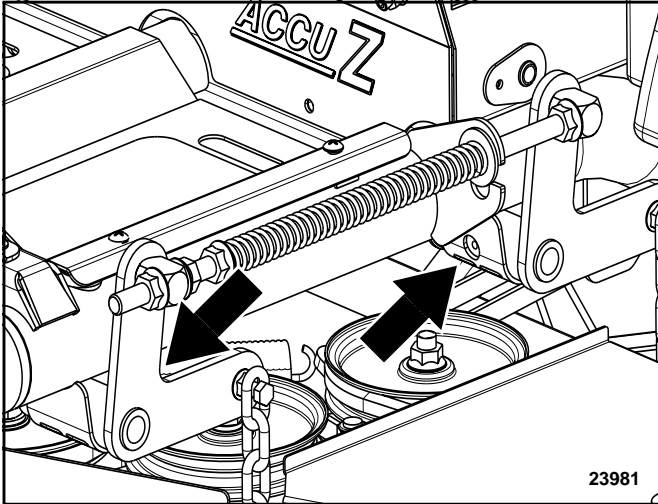
Multi-purpose
grease lube



Multi-purpose
oil lube



Intervals in hours at which
lubrication is required



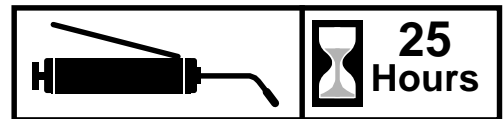
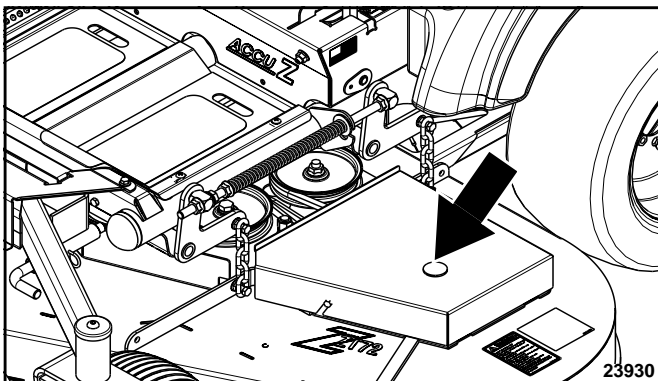
Deck Lift Pivot Points

Locate under main frame beams (both sides)

4 Zerks (2 left side and 2 right side)

Type of Lubrication: Multi-purpose Grease

Quantity = As required every 100 hours or monthly,
whichever comes first.



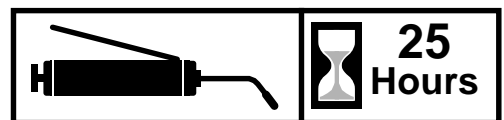
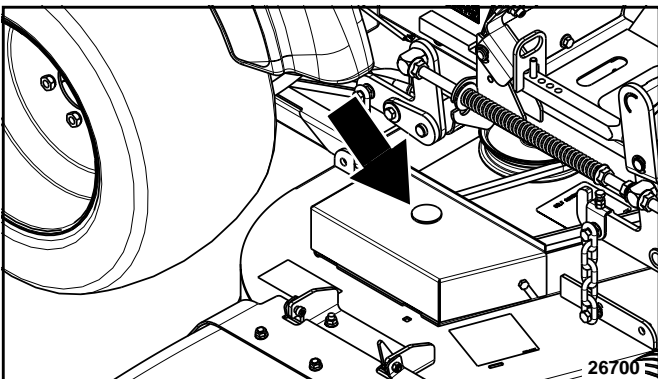
Left Blade Spindle

Access through rubber slit in pulley cover.

1 Zerk

Type of Lubrication: Multi-purpose Grease

Quantity = As required



Right Blade Spindle

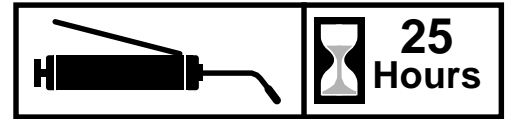
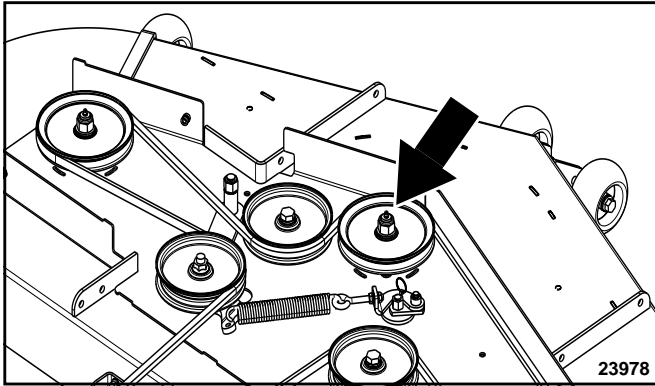
Access through rubber slit in pulley cover.

1 Zerk

Type of Lubrication: Multi-purpose Grease

Quantity = As required

Section 5: Maintenance & Lubrication

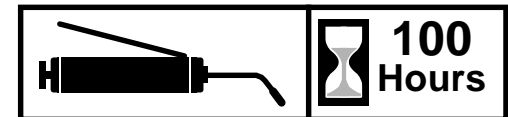
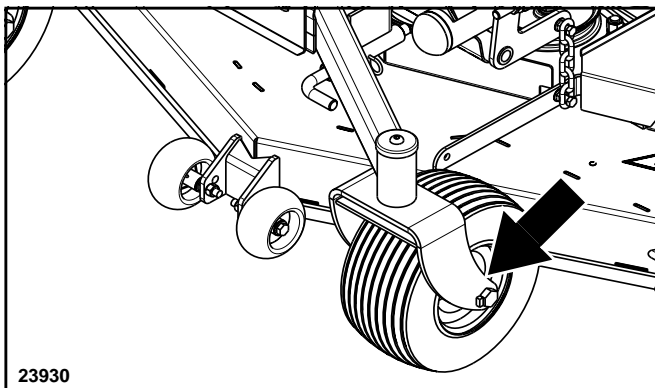
**Center Blade Spindle**

Hinge floor panel above deck up to access

1 Zerk

Type of Lubrication: Multi-purpose Grease

Quantity = As required

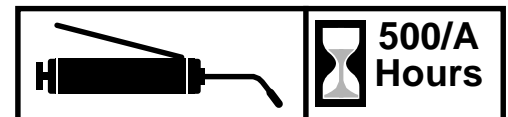
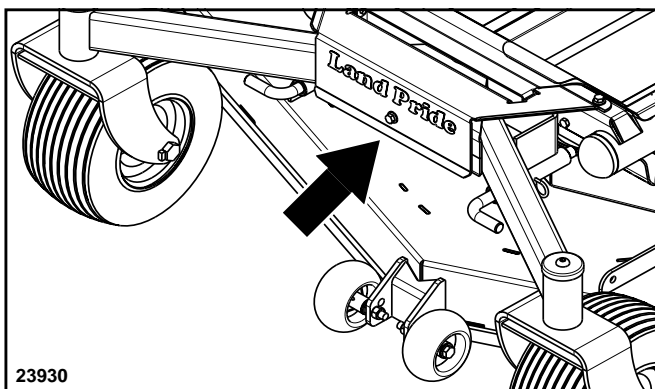
**Caster Wheel Bearing Zerk**

Located on hub of caster wheel

2 Zerks (One on each caster wheel)

Type of Lubrication: Multi-purpose Grease

Quantity = As required

**Front Axle Center Pivot**

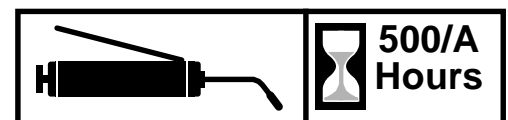
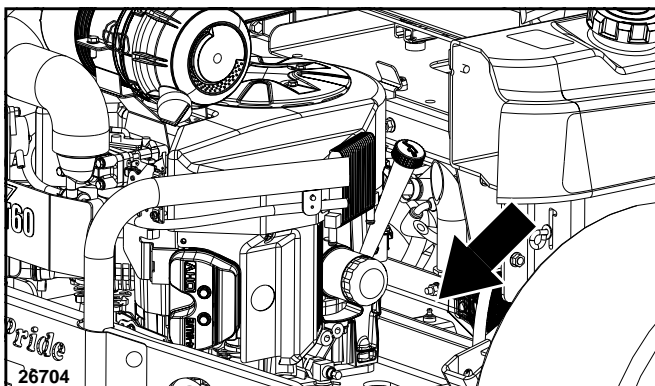
Located at the bottom center of axle

1 Zerk

Type of Lubrication: Multi-purpose Grease

Quantity = As required

Every 500 hrs. or annually, whichever comes first.

**Idler Arm Pivot Pin**

Located on pump mounting cross frame

1 Zerk

Type of Lubrication: Multi-purpose Grease

Quantity = As required

Every 500 hrs. or annually, whichever comes first.

ZT60 & ZT72 Accu-Z® (Engine Specifications)

Engine Manufacture	Honda	Kaswaski		Kohler	
Mower Model No	ZT60	ZT60 & ZT72		ZT60 & ZT72	
Horsepower	24	25	31	27	30
Engine Model Type	GXV670-TAF	FH721V	FX850V	CV740	CV750
Max Torque	37 FT. LBS @ 2500 RPM	41.2 FT. LBS @ 2400 RPM	54.3 FT. LBS @ 2400 RPM	42 FT. LBS @ 2800 RPM	47.1 FT. LBS @ 2600 RPM
Oil Cooling	Oil Cooler				
Engine Cooling	Air cooled, Fly-wheel fan				
Engine Type	4-stroke OHV, V-twin cylinder, gasoline				
No of Cylinders	2				
Displacement	40.9 cu. in. (670cc)	41.2 cu. in. (675cc)	52 cu. in. (852cc)	44 cu. in. (725cc)	46 cu. in. (755cc)
Compression Ratio	8.3:1	8.1:1	8.2:1	9:1	9.4:1
Spark Plug No.	ZGR5A (NGK) J16CR-U (DENSO)	BPR4ES (NGK)		Champion Platinum #3071	
Oil Capacity with Filter Change	2.6 US quarts	2 US quarts	2.1 US quarts	2 US quarts	
Oil Type	SAE 10W-30				
Oil Filter Part No.	831-038C	831-034C		831-062C	
Fuel Filter Part No.	831-035C	831-031C		831-063C	
Air Filter Part No.					
Inner Filter		839-374C	839-973C	839-374C	
Outer Filter	839-323C	839-323C	839-974C	839-323C	

ZT60 & ZT72 Accu-Z® (Hydrostatic Transmission Specifications)

Mower Model No	ZT60	ZT72
Traction Drive Type	Dual Hydrostatic Transmission	
Hydraulic Motor/Pumps	Two variable displacement, axial piston type.	
Hydraulic Motor/Pump Drive	V-belt drive from engine crankshaft	
Hydraulic Oil Type	SAE 20W-50 engine oil	
Hydraulic Oil Capacity	4 gal. (2 gal. per side)	
Hydraulic Oil Filter No.	810-590C	

ZT60 & ZT72 Accu-Z® (General Specifications)

Mower Model No	ZT60	ZT72
Width of Cut	60.4"	72.5"
Trim Capacity (left side)	2.33"	9.75"
Overall width	70.1"	82.2"
Overall Length without hitch plate	77"	82"
Tire-to-tire width:	58.5"	
Height	47"	
Weight With vinyl seats	1140 lbs. w/vinyl seat 1120 lbs. w/deluxe seat	1250 lbs. w/vinyl seat 1230 lbs. w/deluxe seat
Drive Tires	24x12.00 - 12	
Front Tires	13x6.5 - 6, rib tire	

Specifications to continue on next page.

Section 6: Specifications & Capacities

ZT60 & ZT72 Accu-Z® (General Specifications)

Mower Model No	ZT60	ZT72
Starter	12-volt (.8 KW), solenoid shift positive engagement with Honda Engine Electric starter w/Kawaski Engine	
Ignition	Electronic	
Charging System	12-volt, 20 amp w/Honda Engine 12-volt, 13 amp w/Kawaski Engine	
Governor	Mechanical	
Fuel Type	Unleaded gasoline with octane rating of 87 or higher	
Fuel Capacities	12 US GAL	
Steering Type	Twin lever steering provides independent control of each drive wheel.	
Twin Lever Steering Controls	Speed, forward, reverse, brake, and turns.	
Steering Turning Radius	True zero degree. Turns with counter-rotating independent drive wheels.	
Brake Service	Hydrostatic dynamic braking.	
Parking	Electrically released automotive style drum brakes.	
Ground Speed	Forward: 0-10 MPH Reverse: 0-5 MPH	
Mower Drive	Single V-belt with electric clutch and spring tension idler pulley.	
Safety Features	Electric logic-control system governs blade engagement, forward & reverse motion, engine starting & running, and parking brake functions.	
Seat	Deluxe cushion seat with arm rests. Optional Suspension seat with arm rest.	
Mainframe Construction	Welded steel	
Drive Motor Mount	Fabricated from 1/4" steel plate.	
Front Caster Wheels	Free turning with greasable roller bearings.	
Front Caster Forks	3/8" steel.	
Deck Thickness	10 Gauge decks with reinforcements welded into spindle mount areas	
Box-Section Reinforced Front Edge	3/16" thick x 4 1/2" x 2 1/2" Box	
Deck Trim Edges	Solid 1" x 3/8" steel bars for reinforced impact area	
Deck Housing Depth	5 1/8" deep, (room for high-capacity mowing)	
Deck Lift	Foot-operated deck height adjustment with transport position. Pin for setting height.	
Hand Operated Controls	Ignition switch, throttle lever, control levers, blade engagement switch, choke knob and Fuel Tank Selector Valve.	
Indicators	Engine warning light and hour meter	
Cup Holder	Two cup holders molded into the left side fuel tank. Accommodates nearly any cup size.	
Cutting Heights	Height adjustment in 1/4" increments from 1/2" to 4 1/2"	
Mowing Blades	Heavy-duty, heat-treated, high-lift steel blades	
	.25" x 2 1/2" x 20.9"	.25 x 2 1/2" x 25"
Blade Tip Speed	18,700 FPM	18,500 FPM
Blade Drive	V-belt drive to all three spindles. Spring tension idler pulleys.	
Spindles	Machined ductile iron housing, 1" diameter high carbon steel shafts and greasable ball bearings.	
Deck Suspension	Free-floating deck using three blades with center blade to the front. Four point chain suspension with counter balance springs. Includes 4 anti-scalp wheels to improve flotation in rolling and uneven terrain.	

ZT60 & ZT72 Accu-Z®

Features	Benefits
60" or 72" cutting width	Sized right and priced right for ranch, estate owners, and commercial operators.
Ground speed	Forward 10 mph and reverse 5 mph for high productivity.
Mid-mount deck design	Puts the deck closer to the operator's line of sight for more efficient and precise operation.
Drive tire stance	58.5" width provides for excellent stability over uneven and hilly terrain.
Adjustable steering levers	Comfort Grip Steering levers are designed with a wide range of adjustments to accommodate almost any size of operator.
Premium Drive Tires	24x12.00-12 4ply wide stance premium drive tires provide excellent traction and outstanding side-hill stability.
Floating deck design	Chain suspension design provides excellent flotation over uneven terrain.
Rapid deck height adjustment	Spring loaded and foot operated lever action deck height adjuster with pin locator makes for quick, easy, and precise cutting height adjustments.
Anti-scalp rollers	Four anti-scalp rollers with two located on deck ends and two located toward mid-deck keeps scalping to a minimum.
1/2" to 4 1/2" Cutting height	1/2"-4 1/2" in 1/4" increments for good cutting height range control.
Front caster action wheels	Two front mounted 13x6.5-6 ribbed tread caster action wheels mounted in heavy duty pivoting caster forks for durable and quick steering response.
Lockable floating front axle.	Floating front axle provides for smoother ride, more uniform cut, and optimal traction capability by keeping all tires equally in contact with the ground over uneven terrain.
High blade tip speed	60" deck has 18,700 fpm & 72" deck has 18,500 fpm for clean cutting.
High lift blades	Heavy-duty high lift blades are made of .20" thick hardened Marbain steel for long life and high-lift design stands grass prior to cutting.
Easy access spindle housings	1" diameter greaseable spindle with ductile iron housings to handle heavy shock loads.
Kevlar Drive Belts	One hydrostatic drive belt and one deck drive belt made with Kevlar fiber for long belt life.
Electrically released parking brake	Turning the ignition key to off position or spreading both steering levers to open position will automatically engage the automotive style rear drum brakes for added safety and control.
Seat safety interlocks	Rising off of the seat with the blades engaged will stop the blade rotation immediately by shutting the engine down. Engine cannot be started with blade engagement switch on for added margin of safety.
Choice of engines	60" Deck: 24hp Honda, 25 hp Kawasaki, 31 hp Kawasaki, 27 hp Kohler or 30 hp Kohler 72" Deck: 25 hp Kawasaki, 31 hp Kawasaki, 27 hp Kohler or 30 hp Kohler
Remote Air Intake	All engines come standard with cyclonic type remote air intake to keep engines running clean and running longer.
Enhanced engine access	Spark plugs, air filter, oil filter, & oil drain are placed easily within reach.
Engine oil cooler	Keeps engine running at peak performance in warm weather conditions.
Hour meter	Actual engine run-time hour meters are standard equipment to maintain service intervals.
Centered Mounted Rear Engine	Engine is mounted in the center and to the rear for better stability, maximum ease of service, and maximum legroom.
Electric start with choke control	Keyed ignition and manual choke control placed and engineered for one-handed starting convenience.
Twin six gallon fuel tanks	12-gallon fuel capacity with sleekly styled twin tanks. Provides plenty of fuel capacity and operating range. Combination tank selector switch and fuel shutoff valve and vented fuel caps placed inboard so they don't get knocked off.

Section 7: Features and Benefits**ZT60 & ZT72 Accu-Z®**







Isolated exhaust muffler	Muffler is hidden and tucked down under to reduce noise and provide an added measure of protection against burns.
Completely independent twin hydrostatic drives	Outboard heavy-wall tubular frame members also serve as left and right side independent hydraulic oil reservoirs for the hydrostatic drive motors and pumps on each side of the machine eliminating the possibility of cross-contamination. ⁵⁰
Stronger yet cleaner design	Integral frame and hydraulic reservoir construction eliminates the need for cooling fans providing for cleaner and uncluttered component design.
Built in cup holders and ergonomically designed control console	The control console is designed for maximum ease of operation and dual cup holders are standard for operator comfort and convenience.
Hinged Bayonet Mount Seat Platform	Tilts up for easy access to battery and drive components or can be easily removed without tools.
Hinged foot platform	Instantly exposes deck drive components for ease of service.
Comfortable seats	Deluxe Cushion or Molded Vinyl with suspension and adjustable positioning for operator comfort and sustained productivity.
Optional ROPS	Available for added operator protection.

Symptoms	Probable Causes	Suggested Remedies
Starting motor does not crank	Control lever is not in park position or park switch is out of adjustment	Place control handle in park. Re-adjust park position switch
	Blade Engagement switch is engaged	Disengage blade switch
	Weak or dead battery	Recharge or replace
	For additional causes	See engine manual
Engine cranks but does not start	No fuel in fuel tank	Fill fuel tank
	Fuel tank valve turned to "OFF"	Select a fuel tank with gasoline See Figure 5-14 on page 42
	Fuel tank valve turned to an empty tank	Switch fuel valve to the other tank See Figure 5-14 on page 42
	Fuel filter or fuel line is plugged	Replace fuel filter or fuel line
	Numerous	See engine manual
Engine: Runs with continuous misfiring or engine runs unevenly or erratically	Numerous	See engine manual
Grass cutting is ragged or uneven	Dull, bent or broken cutting blades	Sharpen or replace cutting blades
	Deck full of wet sticky grass	Clean underside of deck
	Cutting Blades are not operating at full engine speed	Increase engine rpms to full speed (3600 rpm)
	Belt over center take-up is loose	Tension over center take-up
	Worn or broken belt	Replace worn and broken belts
	Deck is not level	Check air pressure in all 4 tires Make level adjustments to the deck
Loss of power or system will not operate in either direction	Bypass valve open	Close bypass valve
	Linkage bolt is loose or lost	Replace linkage bolt
	Bad ground drive belt and/or pump idler pulley	Replace belt and/or idler pulley Tighten idler pulley if loose
	Loose, lost or broke idler pulley spring	Reattach or replace idler pulley spring
	Restrictions in air cleaner	Service air cleaner
	Internal interference or leakage in Hydro-Drive	See your dealer
	Insufficient hydraulic oil supply	Check hydraulic oil level in expansion tank and add oil if needed
	Poor compression	See your dealer
	Steering linkage needs adjustment	Adjust linkage
	Air in system	Check filter & fittings
Overheating	Air intake screen or cleaning fins clogged	Clean screen and fin
	Not operating engine at rated speed	Increase engine speed to 3600 rpm
	For additional causes	See engine manual

Section 8: Troubleshooting

Symptoms	Probable Causes	Suggested Remedies
Low oil pressure (Indicated by oil light on while engine is running.)	Low oil level	Add oil
	Oil diluted or too light	Change oil and check for source of contamination
High oil consumption	Numerous	See your dealer
Mower jerky when starting or operates in one direction only	Steering control linkage needs adjustment	Adjust linkage
	Hydro-drive faulty	See your dealer
Hydraulic system operates hot	Hydro-drive faulty	See your dealer
	Not operating engine at rated speed	Increase engine speed to 3600 rpm
Mower creeps when steering control levers are in neutral	Steering linkage needs adjustment	Adjust linkage
Mower circles or veers in one direction	Steering linkage needs adjustment	Adjust linkage
	Hydro-drive faulty	See your dealer
Mower creeps in park	Steering linkage needs adjustment	Replace or adjust as required
	Brakes worn or out of adjustment	
Parking brakes will not hold on slopes of 15 deg. or less.	Brakes worn or out of adjustment	Replace or adjust as required

Torque Values Chart

Bolt Size (Inches)	Bolt Head Identification						Bolt Size (Metric)	Bolt Head Identification					
	 Grade 2	 Grade 5	 Grade 8					 Class 5.8	 Class 8.8	 Class 10.9			
in-tpi ¹	N-m ²	ft-lb ³	N-m	ft-lb	N-m	ft-lb	mm x pitch ⁴	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12	M 5 X 0.8	4	3	6	5	9	7
1/4" - 28	8.5	6	13	10	18	14	M 6 X 1	7	5	11	8	15	11
5/16" - 18	15	11	24	17	33	25	M 8 X 1.25	17	12	26	19	36	27
5/16" - 24	17	13	26	19	37	27	M 8 X 1	18	13	28	21	39	29
3/8" - 16	27	20	42	31	59	44	M10 X 1.5	33	24	52	39	72	53
3/8" - 24	31	22	47	35	67	49	M10 X 0.75	39	29	61	45	85	62
7/16" - 14	43	32	67	49	95	70	M12 X 1.75	58	42	91	67	125	93
7/16" - 20	49	36	75	55	105	78	M12 X 1.5	60	44	95	70	130	97
1/2" - 13	66	49	105	76	145	105	M12 X 1	90	66	105	77	145	105
1/2" - 20	75	55	115	85	165	120	M14 X 2	92	68	145	105	200	150
9/16" - 12	95	70	150	110	210	155	M14 X 1.5	99	73	155	115	215	160
9/16" - 18	105	79	165	120	235	170	M16 X 2	145	105	225	165	315	230
5/8" - 11	130	97	205	150	285	210	M16 X 1.5	155	115	240	180	335	245
5/8" - 18	150	110	230	170	325	240	M18 X 2.5	195	145	310	230	405	300
3/4" - 10	235	170	360	265	510	375	M18 X 1.5	220	165	350	260	485	355
3/4" - 16	260	190	405	295	570	420	M20 X 2.5	280	205	440	325	610	450
7/8" - 9	225	165	585	430	820	605	M20 X 1.5	310	230	650	480	900	665
7/8" - 14	250	185	640	475	905	670	M24 X 3	480	355	760	560	1050	780
1" - 8	340	250	875	645	1230	910	M24 X 2	525	390	830	610	1150	845
1" - 12	370	275	955	705	1350	995	M30 X 3.5	960	705	1510	1120	2100	1550
1-1/8" - 7	480	355	1080	795	1750	1290	M30 X 2	1060	785	1680	1240	2320	1710
1 1/8" - 12	540	395	1210	890	1960	1440	M36 X 3.5	1730	1270	2650	1950	3660	2700
1 1/4" - 7	680	500	1520	1120	2460	1820	M36 X 2	1880	1380	2960	2190	4100	3220
1 1/4" - 12	750	555	1680	1240	2730	2010	¹ in-tpi = nominal thread diameter in inches-threads per inch ² N·m = newton-meters ³ ft-lb= foot pounds ⁴ mm x pitch = nominal thread diameter in millimeters x thread pitch						
1 3/8" - 6	890	655	1990	1470	3230	2380							
1 3/8" - 12	1010	745	2270	1670	3680	2710							
1 1/2" - 6	1180	870	2640	1950	4290	3160							
1 1/2" - 12	1330	980	2970	2190	4820	3560							

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

Additional Torque Values

Drive Wheel Lug Nuts (1/2"-20 UNF)	75 ft-lbs.	102 N-m
Blade Spindle bolts (1/2"-20 UNF x 2 1/2" GR8)	60 to 70 ft-lbs.	82 to 95 N-m
Spindle Housing Flange Bolts	55 ft-lbs	75 N-m
Idler Pulley bolts (5/8"-11 UNC GR5)	130 ft-lbs.	176 N-m
Electric Clutch Bolt (7/16"- 20 UNF GR*8)	50 to 55 ft-lbs.	68 to 75 N-m

Tire Inflation Chart

Tire	Inflation PSI
Drive Wheels	8 to 12
Caster Wheels	8 to 12

Section 9: Appendix

Warranty

Land Pride warrants to the original purchaser that this Land Pride product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

Overall unit: 2 years limited warranty on Parts and Labor.

Engine: 2 years limited warranty through Engine manufacturer.

Hydraulic Wheel Motors and Pumps: 3 years on Parts and Labor.

Front Edge of Mower Deck: Limited warranty against all defects in the deck which results in the front edge of the deck being bent into the blades for the entire length of ownership by the original purchaser.

Frame: Frame breakage through the entire length of ownership by the original purchaser.

Blade Spindle bearings: 3 years Parts and Labor.

Front Caster Wheel Yoke Bearings: 3 years or 1200 hours Parts and Labor

Battery: 1 year limited warranty.

Rental Units: Limited warranty on all materials and workmanship for a period of 90 days.

Belts, blades, and tires are considered wear items.

Filters and Plugs are considered maintenance items.

This Warranty is limited to the replacement of any defective part by Land Pride and the installation by the dealer of any such replacement part, and does not cover common wear items such as blades, belts, tines, etc. Land Pride reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This Warranty does not apply to any part or product which in Land Pride's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this Warranty must be made to the dealer which originally sold the product and all warranty adjustments must be made through such dealer. Any action for breach of warranty must be commenced within 25 months following delivery in non-rented application, and within 120 days following delivery in rented application.

This Warranty shall not be interpreted to render Land Pride liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, Land Pride shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, any expense or loss for labor, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

This Warranty is not valid unless registered with Land Pride within 30 days from the date of purchase by the end user.



Corporate Office: P.O. Box 5060
Salina, Kansas 67402-5060 USA
www.landpride.com
